

PHYTO PLAN[®]

Pflanzliche Wirkstoffe und Analytik

Product List 2011

Reference Substances

Natural Compounds

Dear customer,

we are pleased to introduce our new catalogue for the year 2011. Therein you will find many new products and also a greater range in the qualities of the compounds differing in the degree of purity and the documents delivered. Please decide which item is the proper for your purpose.

Catalogue of natural compounds

In our catalog we have listed the substances which are near-term available. Often you can choose a definite degree of purity and extent of documentation (see column ' documents delivered ').

The substances are mostly of high purity and are available as identification standards or HPLC standards dependent on the extent of the documentation. Some compounds we offer you also in larger quantities in a downgraded degree of purity.

All substances are delivered with an individual certificate of analysis which shows the purity by means of HPLC DAD and DAD ultraviolet spectrum.

Due to its purity (usually > 99,0 %) the reference substances of our catalog are suitable for ambitious applications. On customer's request the range of the current documentation can be individually expanded and adapted.

Please check which specific requirement of the documentation for your application (e.g. for authorisation or registration, HPLC standard, working standard etc.) is demanded.

Purity, quantity and extent of documentation for all substances can individually be defined by your demand.

Reference substances for identification

This class of substances is characterized by high purity (mostly greater 99,0 %) and are sold in definite purity classification, package sizes and prices. The certificate of analysis delivered contains both chromatographic measurements of the purity with TLC, HPLC-DAD and/or GC/MS and spectroscopic measurement like NMR, UV, IR, MS inclusive data interpretation.

The extent of the certificate of analysis is listed in the catalogue in the column 'documents delivered'. On customer's request also further analytic measurements can be performed.

If you are interested we can transfer you more information about discrete substances.

Dependent on the quantity ordered the delivery time may be prolonged. The availability of these substances however is warranted for longer periods.

On demand we can extend the certificates of analysis which are designed only for HPLC standards with further documents so that these substances can also be characterized as identification standards.

HPLC-standards

We supply these substances in a purity predominantly greater 99,0%. The current purity is indicated in the certificate of analysis together with a HPLC DAD chromatogram and UV spectrum.

Bulkware

Some compounds we offer with a lower degree of purity but in larger units and at a favourable price. Even for degrees of purity not specified in the catalog we make you an offer. In all cases you are provided with a certificate with HPLC DAD chromatogram.

Isolation on request

If you are interested in one or several compounds also from a definite plant we will study the feasibility and make you an offer in accordance with the individual costs. The requirements of the documentation and the specification will be made by your defaults.

In our laboratories we use all established chromatographic separation media and separation techniques. This enables us to produce even difficult accessible substances in multigram quantities. The likewise existing classical-chemical laboratory equipment facilitates also synthetic alternatives to pure isolation.

Purification on request

If you have a substance which is not sufficiently pure for your application we can clean it up in accordance with your specification. Use our broad experience with different substance classes and separation problems. Please request for an offer.

Discounts

If ordering the 5fold or 10fold quantity of a listed unit we will give you a discount of 10% or 20% of the calculated price. In cases of greater quantities we will make even greater discounts.

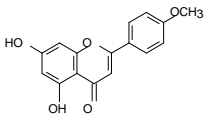
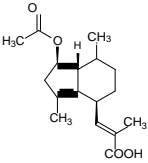
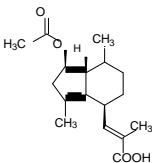
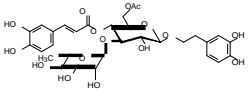
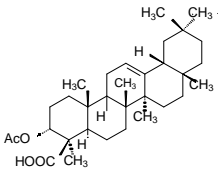
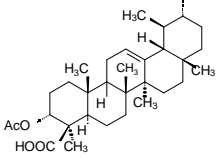
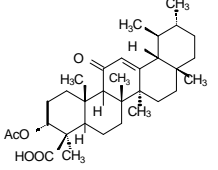
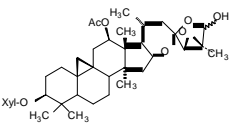
Shipment costs

Dependent on the country we must charge your parcel with effective shipment costs. We will inform you on demand or in the order confirmation.

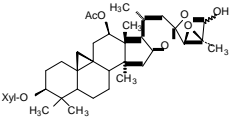
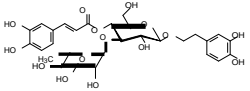
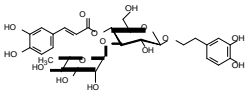
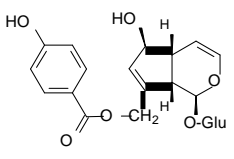
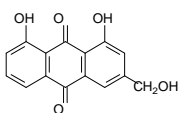
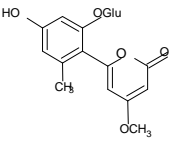
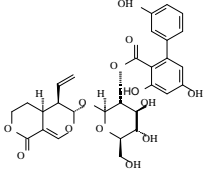
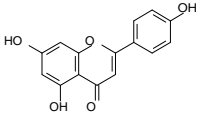
Table of compounds

Acacetin	Eleutheroside B	Lycopene
Acetoxyvaleric acid	Eleutheroside E	Malvidin chloride
Acetylacteoside	Emodin (Frangula-)	Malvin chloride
Acetyl- α -boswellic acid	Englerin A	Manassantin A
Acetyl- β -boswellic acid	(-)-Epicatechin	Manassantin B
Acetyl-11-keto- β -boswellic acid	(-)-Epicatechin gallate	Morindine
Actein	(-)-Epigallocatechin	Myricitrin
Acteoside	(-)-Epigallocatechingallate	Narciclasine
Agnuside	Frangulin (A + B)	Naringenin
Aloe-Emodin	Frangulin A	Naringin
Aloenin A	Frangulin B	Oenin chloride
Amarogentin	(-)-Gallocatechin	Oleuropein
Apigenin	[6]-Gingerol	Orientin
Apigenin-7-glucoside	[8]-Gingerol	Pectolarin
Apiin	Ginkgolide A	Pectolarigenin
Aristolochic acid mixture	Ginkgolide B	Picroside II
Aristolochic acid sodium salt	Ginkgolide C	Primin
Aristolochic acid I	Glucoberterin	Primulaverin
Aristolochic acid II	Glucobrassicin	Primverin
Aucubin	Glucobrassicinapin	Progoitrin
Azadirachtin	Glucoerucin	Pseudohypericin
Baicalein	Glucoiberin	Quercetin
Baicalin	Gluconapin	Quercitrin
Bergamottin	Gluconasturtiin	Retrorsine
Betulin	Glucotropaeolin	Retrorsine-N-oxide
Betulinic acid	Hamamelitannin	Rhein
Bilobalide	Harpagide	Rosmarinic acid
α -Boswellic acid	Harpagoside	Rutin
β -Boswellic acid	Hederacoside C	Saponarin
Caftaric acid	Hederagenin	Senecionine
Casticin	α -Hederin	Senecionine-N-oxide
Catalpol	Hesperetin	Seneciphylline
(-)-Catechin	Hesperidin	Seneciphylline-N-oxide
(+)-Catechin	Homoorientin	Senkirkin
Cephaelin dihydrobromide	Hydroxytyrosol	Sennoside A
Chelidonine	Hydroxyvaleric acid	Sennoside A1
Chlorogenic acid	Hypericin	Sennoside B
Cichoric acid	Hypericin sodium salt	Silybin
Cnicin	Hyperoside	Sinalbin
Coptisine	Isoacteoside	Sinensetin
Curcumin	Isoquercitrin	Sinigrin
Cyanidin chloride	Isorhamnetin	α -Solanin
Cyanidin-3-glucoside	Isovitexin	Spiraeoside
Cyanidin-3-rutinoside	Isoxanthohumol	Taxifolin
Cyanin chloride	Kaempferol	Trifolirhizin
Cynarine	Kaempferol-3-glucoside	Umckalin
Cytisine	11-Keto- β -boswelliic acid	Ursolic acid
27-Deoxyactein	Leiocarposide	Valeric acid
Delphinidin-3-galactoside	Lanatoside C	Vitexin
Delphinidin-3-glucoside	Linarin	Vitexin-2''-O-rhamnoside
Delphinidin-3-rutinoside	Lutein	Wogonin
Echinacoside	Luteolin	Wogonoside
Elenolic acid glucoside	Luteolin-7-glucoside	Xanthohumol

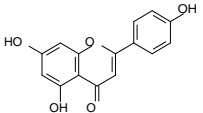
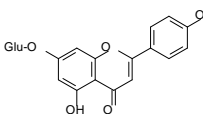
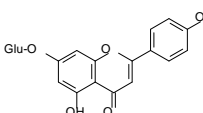
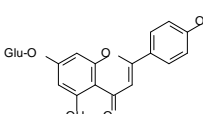
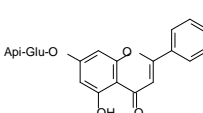
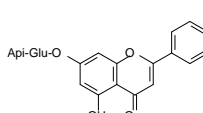
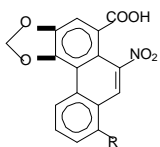
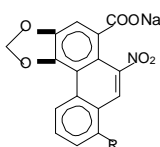
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Acacetin Linarigenin, 5,7-Dihydroxy-4'-methoxyflavon from Robinia pseudoacacia Art.-Nr. 3209.99 >99.0 % [480-44-4] C₁₆H₁₂O₅ M_r 284.26</p>	HPLC-DAD with UV-Spectrum	20 mg
 <p>Acetoxyvalerenic acid from Valeriana officinalis Art. 4402.RS >99.0 % [81397-67-3] C₁₇H₂₄O₄ M_r 292.37</p>	HPLC-DAD (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS	25 mg
 <p>Acetoxyvalerenic acid from Valeriana officinalis Art. 4402.99 >99.0 % [81397-67-3] C₁₇H₂₄O₄ M_r 292.37</p>	HPLC-DAD with UV-spectrum	25 mg
 <p>6-O-Acetylacteoside from Harpagophytum procumbens Art. 6100.99 >99.0 % [441769-43-3] C₃₁H₃₈O₁₆ M_r 666.64</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>3-Acetyl-α-boswellic acid (3α,4β)-3-Acetoxy-olean-12-ene-23-acid from Boswellia serrata Art. 5154.99 >99.0 % [89913-60-0] C₃₂H₅₀O₄ M_r 498.73</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>3-Acetyl-β-boswellic acid (3α,4β)-3α-Acetoxy-urs-12-ene-23-acid from Boswellia serrata Art. 5151.99 >99.0 % [5968-70-7] C₃₂H₅₀O₄ M_r 498.73</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>3-Acetyl-11-keto-β-boswellic acid 3α-Acetoxy-urs-12-ene-11-keto-23-acid from Boswellia serrata Art. 5153.99 >99.0 % [67416-61-9] C₃₂H₄₈O₅ M_r 512.73</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Actein from Cimicifuga racemosa Art. 3506.RS >99.0 % [18642-44-9] C₃₇H₅₆O₁₁ M_r 676.84</p>	HPLC-DAD (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), IR, MS, hr-MS, Melting point	10 mg 50 mg

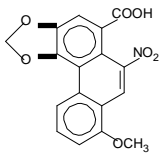
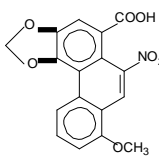
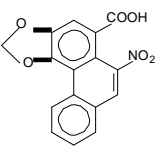
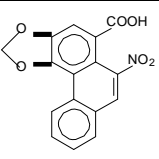
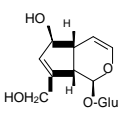
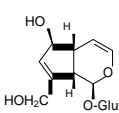
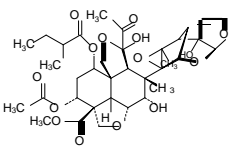
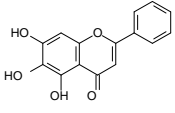
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Actein from <i>Cimicifuga racemosa</i> Art. 3506.99 >99.0 % [18642-44-9] C₃₇H₅₆O₁₁ M_r 676.84</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Acteoside Verbascoside from <i>Paulownia tormentosa</i> Art. 6101.RS >98.0 % [61276-17-3] C₂₉H₃₆O₁₅ M_r 624.59</p>	HPLC-DAD, TLC, 1H-NMR, 13C-NMR - (with Interpretation), UV, IR, MS	20 mg 50 mg
 <p>Acteoside Verbascoside from <i>Paulownia tormentosa</i> Art. 6101.98 >98.0 % [61276-17-3] C₂₉H₃₆O₁₅ M_r 624.59</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Agnuside 10-p-Hydroxybenzoylaucubin from <i>Vitex agnus castus</i> Art. 2102.98 >98.0 % [11027-63-7] C₂₂H₂₆O₁₁ M_r 466.44</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Aloe-Emodin 1,8-Dihydroxy-3-(hydroxymethyl)- anthraquinone, synthetic Art. 3714.99 >99.0 % [481-72-1] C₁₅H₁₀O₅ M_r 270.23</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Aloenin A from <i>Aloe arborescens</i> Art. 4105.99 >99.0 % [38412-46-3] C₁₉H₂₂O₁₀ M_r 410.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Amarogentin from <i>Gentiana lutea</i> Art. 2122.99 >99.0 % [21018-84-8] C₂₉H₃₀O₁₃ M_r 586.54</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Apigenin 4',5,7-Trihydroxyflavone from <i>Chamomillae romana</i> Art. 3205.99 >99.0 % [520-36-5] C₁₅H₁₀O₅ M_r 270.23</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg

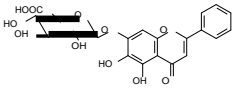
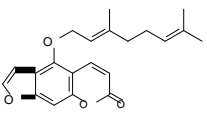
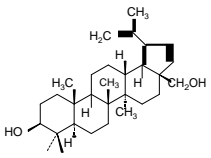
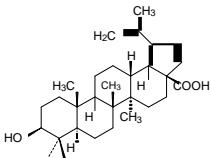
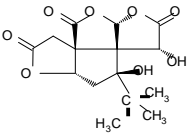
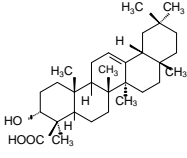
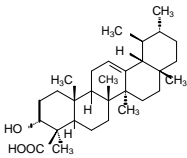
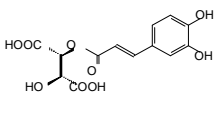
Catalogue of Natural Compounds

Compound		documents delivered	quantity
	<p>Apigenin 4',5,7-Trihydroxyflavone from Chamomillae romana</p> <p>Art. 3205.97 >97.0 % [520-36-5] C₁₅H₁₀O₅ M_r 270.23</p>	HPLC-DAD with UV-spectrum	50 mg
	<p>Apigenin-7-glucoside Apigenin, Cossmetin, 7-Glucosylapigenin from Chamomillae romana</p> <p>Art. 3207.RS >99.0 % [578-74-5] C₂₁H₂₀O₁₀ M_r 432.38</p>	HPLC-DAD (2 methods) TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg 100 mg
	<p>Apigenin-7-glucoside Apigenin, Cossmetin, 7-Glucosylapigenin from Chamomillae romana</p> <p>Art. 3207.99 >99.0 % [578-74-5] C₂₁H₂₀O₁₀ M_r 432.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
	<p>Apigenin-7-glucoside Apigenin, Cossmetin, 7-Glucosylapigenin from Chamomillae romana</p> <p>Art. 3207.97 >97.0 % [578-74-5] C₂₁H₂₀O₁₀ M_r 432.38</p>	HPLC-DAD with UV-spectrum	100 mg
	<p>Apiin Apioside, Apigenin-7-aposylglucoside from Petroselinum crispum</p> <p>Art. 3244.RS >98.0 % [26544-34-3] C₂₆H₂₈O₁₄ M_r 564.50</p>	HPLC-DAD (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 20 mg
	<p>Apiin Apioside, Apigenin-7-aposylglucoside from Petroselinum crispum</p> <p>Art. 3244.98 >98.0 % [26544-34-3] C₂₆H₂₈O₁₄ M_r 564.50</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
	<p>Aristolochic acid mixture of Aristolochic acids with aristolochic acid I and II as main components from Aristolochia clematitis</p> <p>Art. 4610.96 >96.0 % [67123-64-2]</p>	HPLC-DAD with UV-spectrum	500 mg
	<p>Aristolochic acid Sodium salt mixture from aristolochic acids I und II sodium salt from Aristolochia clematitis</p> <p>Art. 4615.96 >96.0 % [10190-99-5]</p>	HPLC-DAD with UV-spectrum	250 mg 500 mg

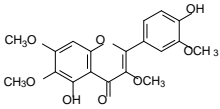
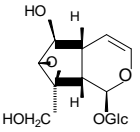
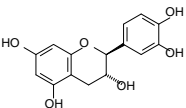
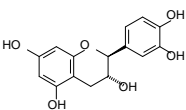
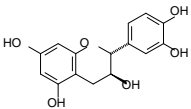
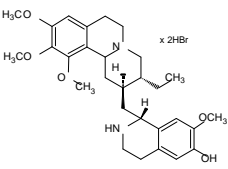
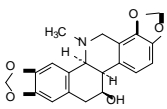
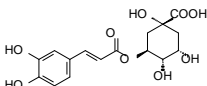
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Aristolochic acid I from <i>Aristolochia clematitis</i></p> <p>Art. 4611.99 >99.0 % [313-67-7] C₁₇H₁₁NO₇ M_r 341.28</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Aristolochic acid I Aristolochin from <i>Aristolochia clematitis</i></p> <p>Art. 4611.96 >96.0 % [313-67-7] C₁₇H₁₁NO₇ M_r 341.28</p>	HPLC-DAD with UV-spectrum	250 mg 500 mg
 <p>Aristolochic acid II Noraristolochic acid from <i>Aristolochia clematitis</i></p> <p>Art. 4613.99 >99.0 % [475-80-9] C₁₆H₉NO₆ M_r 311.25</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Aristolochic acid II from <i>Aristolochia clematitis</i></p> <p>Art. 4613.96 >96.0 % [475-80-9] C₁₆H₉NO₆ M_r 311.25</p>	HPLC-DAD with UV-spectrum	250 mg 500 mg
 <p>Aucubin Rhinanthin, Aucuboside from <i>Aucuba japonica</i></p> <p>Art. 2101.RS >99.0 % [479-98-1] C₁₅H₂₂O₉ M_r 346.33</p>	HPLC-DAD (2 methods), TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg
 <p>Aucubin Rinanthin, Aucuboside from <i>Aucuba japonica</i></p> <p>Art. 2101.99 >99.0 % [479-98-1] C₁₅H₂₂O₉ M_r 346.33</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Azadirachtin from <i>Azadirachta indica</i></p> <p>Art. 4501.97 >97.0 % [11141-17-6] C₃₅H₄₄O₁₆ M_r 720.72</p>	HPLC-DAD with UV-spectrum	1 mg 5 mg 10 mg
 <p>Baicalein 5,6,7-Trihydroxyflavone from <i>Scutellaria baicalensis</i></p> <p>Art. 3204.99 >99.0 % [491-67-8] C₁₅H₁₀O₅ M_r 270.24</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg

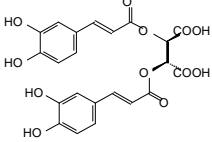
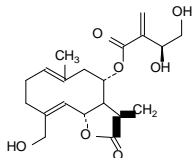
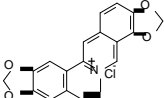
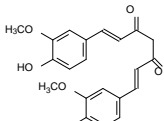
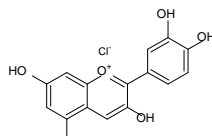
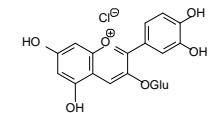
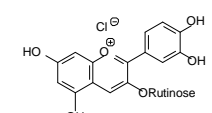
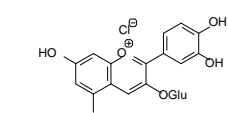
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Baicalin Baicalein-7-β-D-glucopyranoside uronate from <i>Scutellaria baicalensis</i> Art. 3206.99 >99.0 % [21967-41-9] C₂₁H₁₈O₁₁ M_r 446.37</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Bergamottin 5-Geranyloxypsoralen from <i>Oleum bergamottae</i> Art. 2114.99 >99.0 % [7380-40-7] C₂₁H₂₂O₄ M_r 338.42</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Betulin Lup-20(29)-ene-3,28-diol, Betulinol from <i>Betula pendula</i> Art. 5142.98 >98.0 % [473-98-3] C₃₀H₅₀O₂ M_r 442.73</p>	HPLC-DAD with UV-spectrum	1 g
 <p>Betulinic acid 3β-Hydroxy-lup-20(29)-ene-28-acid from <i>Platanus acerifolia</i> Art. 5144.99 >99.0 % [472-15-1] C₃₀H₄₈O₃ M_r 456.71</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Bilobalide from <i>Ginkgo biloba</i> Art. 4255.98 >98.0 % [33570-04-6] C₁₅H₁₈O₈ M_r 326.30</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>α-Boswellic acid (3α,4β)-3-Hydroxy-olean-12-ene-23-acid from <i>Boswellia serrata</i> Art. 5155.99 >99.0 % [471-66-9] C₃₀H₄₈O₃ M_r 456.73</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>β-Boswellic acid (3α,4β)-3-Hydroxyurs-12-ene-23-acid from <i>Boswellia serrata</i> Art. 5150.99 >99.0 % [631-69-6] C₃₀H₄₈O₃ M_r 456.73</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Caftaric acid 2-Caffeoyltartaric acid from <i>Echinacea pallida</i> Art. 6106.98 >98.0 % [67879-58-7] C₁₃H₁₂O₉ M_r 312.24</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg

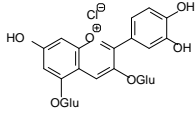
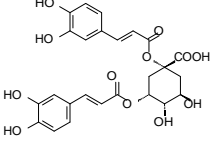
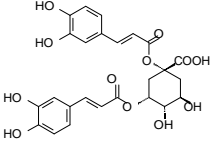
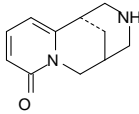
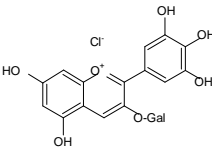
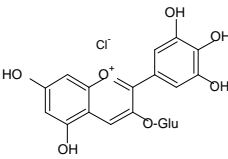
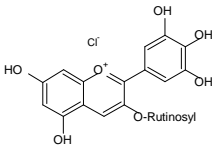
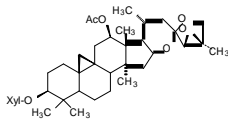
Catalogue of Natural Compounds

Compound		documents delivered	quantity
 <p>Casticin Vitexicarpin from <i>Vitex agnus castus</i></p> <p>Art. 3238.98 >98.0 % [479-91-4] C₁₉H₁₈O₈ M_r 374.32</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Catalpol from <i>Picrorhiza kurroa</i></p> <p>Art. 2109.99 >99.0 % [2415-24-9] C₁₅H₂₂O₁₀ M_r 362.33</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>(-)-Catechin (-)-Catechol, 3,3',4',5,7-Pentahydroxyflavan, from <i>Acacia catechu</i></p> <p>Art. 3303.RS >99.0 % [18829-70-4] C₁₅H₁₄O₆ M_r 290.27</p>		HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point,	20 mg
 <p>(-)-Catechin (-)-Catechol, 3,3',4',5,7-Pentahydroxyflavan, from <i>Acacia catechu</i></p> <p>Art. 3303.99 >99.0 % [18829-70-4] C₁₅H₁₄O₆ M_r 290.27</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>(+)-Catechin from <i>Acacia catechu</i></p> <p>Art. 3304.99 >99.0 % [154-23-4] C₁₅H₁₄O₆ M_r 290.27</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Cephalein dihydrobromide Desmethylemetin dihydrobromide from <i>Ipecacuanha</i></p> <p>Art.-Nr. 6304.97 >97.0 % [6014-81-9] C₂₈H₃₈N₂O₄ x 2HBr M_r 628.45</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Chelidonine Stylophorin from <i>Chelidonium majus</i></p> <p>Art. 6302.98 >98.0 % [476-32-4] C₂₀H₁₉NO₅ M_r 353.37</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Chlorogenic acid 3-Caffeoylchinnic acid from green coffee beans</p> <p>Art.-Nr. 6107.99 >99.0 % [327-97-9] C₁₆H₁₈O₉ M_r 354.31</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg

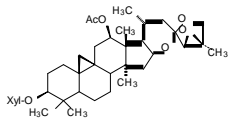
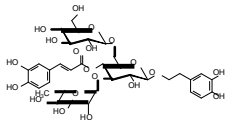
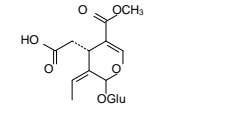
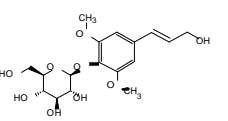
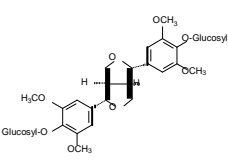
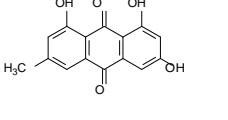
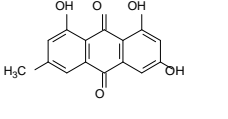
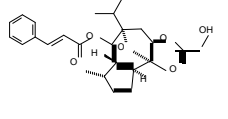
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Cichoric acid 2,3-Dicaffeoyltartaric acid from <i>Echinacea pallida</i></p> <p>Art. 6105.98 >98.0 % [70831-56-0] C₂₂H₁₈O₁₂ M_r 474.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Cnicin from <i>Cnicus benedictus</i></p> <p>Art. 2113.98 >98.0 % [24394-09-0] C₂₀H₂₆O₇ M_r 378.42</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Coptisine chloride Bis(methylenedioxy)protoberberin from <i>Chelidonium majus</i></p> <p>Art. 6301.RS >99.0 % [6020-18-4] C₁₉H₁₄NO₄Cl M_r 355.78</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Curcumin Diferuloylmethane from <i>Curcuma longa</i></p> <p>Art. 4320.98 >98.0 % [458-37-7] C₂₁H₂₀O₆ M_r 368.39</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Cyanidin chloride Cyanidol aus <i>Rosa centifolia</i></p> <p>Art.-Nr. 5003.97 >97.0 % [528-58-5] C₁₅H₁₁ClO₆ M_r 322.70</p>	HPLC-DAD with UV-spectrum	20 mg
 <p>Cyanidin-3-glucoside Kuromanin chloride, Asterin from <i>Rosa centifolia</i></p> <p>Art. 5002.97 >97.0 % [7084-24-4] C₂₁H₂₁ClO₁₁ M_r 484.84</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Cyanidin-3-rutinoside Antirihin, Keracyanin from <i>Ribes nigrum</i></p> <p>Art. 5004.97 >97.0 % [18719-76-1] C₂₁H₂₁ClO₁₁ M_r 630.98</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Cyanin chloride Cyanidin-3,5-diglucoside chloride from <i>Rosa centifolia</i></p> <p>Art. 5001.98 >98.0 % [2611-67-8] C₂₇H₃₁ClO₁₆ M_r 646.96</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg

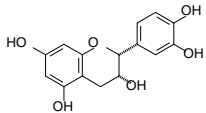
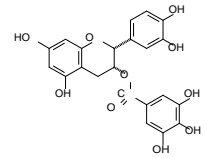
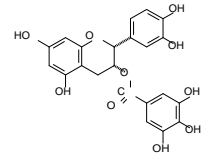
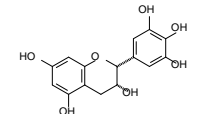
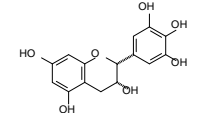
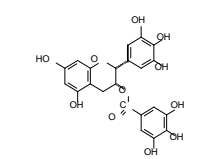
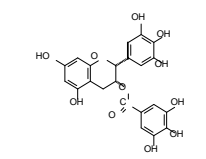
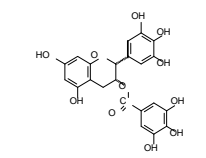
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Cyanin chloride Cyanidin-3,5-diglucoside chloride from <i>Rosa centifolia</i></p> <p>Art. 5001.96 >96.0 % [2611-67-8] C₂₇H₃₁ClO₁₆ M_r 646.96</p>	HPLC-DAD with UV-spectrum	100 mg
 <p>Cynarin 1,3-Dicaffeoylquinic acid from <i>Cynara scolymus</i></p> <p>Art. 6103.RS >99.0 % [1182-34-9] C₂₅H₂₄O₁₂ M_r 516.46</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 20 mg 50 mg
 <p>Cynarin 1,3-Dikaffeoylquinic acid from <i>Cynara scolymus</i></p> <p>Art. 6103.99 >99.0 % [1182-34-9] C₂₅H₂₄O₁₂ M_r 516.46</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Cytisine Laburnin from <i>Laburnum anagyroides</i></p> <p>Art. 6204.98 >98.0 % [485-35-8] C₁₁H₁₄N₂O M_r 190.25</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Delphinidin-3-galactoside chloride Empetrin from <i>Vaccinium myrtillus</i></p> <p>Art. 5017.95 >95.0 % [28500-00-7] C₂₁H₂₁O₁₂Cl M_r 500.84</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Delphinidin-3-glucoside chloride Myrtillin from <i>Vaccinium myrtillus</i></p> <p>Art. 5018.95 >95.0 % [6906-38-3] C₂₁H₂₁O₁₂Cl M_r 500.84</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Delphinidin-3-rutinoside Delphinidin-3-glucorhamnoside, Tulipanin from <i>Ribes nigrum</i></p> <p>Art. 5009.97 >97.0 % [15674-58-5] C₂₇H₃₁ClO₁₆Cl M_r 646.98</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>27-Deoxyactein 26-Deoxyactein, 23-epi-26-Deoxyactein from <i>Cimicifuga racemosa</i></p> <p>Art. 3505.RS >99.0 % [-] C₃₇H₅₆O₁₀ M_r 660.84</p>	HPLC-DAD (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), IR, MS, hr-MS, Melting point	10 mg 50 mg

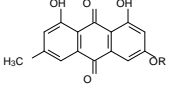
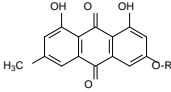
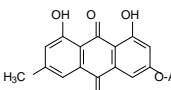
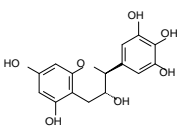
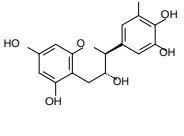
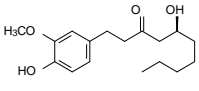
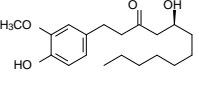
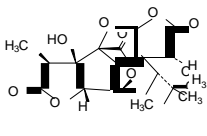
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>27-Deoxyactein 26-Deoxyactein, 23-epi-26-Deoxyactein from <i>Cimicifuga racemosa</i> Art. 3505.99 >99.0 % [-] C₃₇H₅₆O₁₀ M_r 660.84</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Echinacoside from <i>Echinacea pallidea</i> Art. 6104.98 >98.0 % [82854-37-3] C₃₅H₄₆O₂₀ M_r 786.70</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Elenolic acid glucoside Oleoside-11-methylester from <i>Olea europaea</i> Art. 2131.98 >98.0 % [60539-23-3] C₁₇H₂₄O₁₁ M_r 404.38</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Eleutheroside B Syringin, Syringoside from <i>Syringa vulgaris</i> Art. 3203.99 >99.0 % [118-34-3] C₁₇H₂₄O₉ M_r 372.36</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Eleutheroside E Syringaresinol-4',4'-O-bis-β-D-glucoside from <i>Eleutherococcus</i> Art. 3202.96 >96.0 % [39432-56-9] C₃₄H₄₆O₁₈ M_r 742.71</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Emodin Frangula-Emodin, Rheum-Emodin, Archin from <i>Rhamnus frangula</i> Art. 3266.RS >99.0 % [518-82-1] C₁₅H₁₀O₅ M_r 270.23</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg
 <p>Emodin Frangula-Emodin, Rheum-Emodin, Archin from <i>Rhamnus frangula</i> Art. 3266.99 >99.0 % [518-82-1] C₁₅H₁₀O₅ M_r 270.23</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Englerin A aus <i>Phyllanthus engleri</i> Art.-Nr. 1901.95 >95.0 % [-] C₂₆H₃₅O₁₆ M_r 443.56</p>	HPLC-DAD mit UV-Spektrum	10 mg

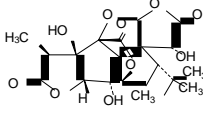
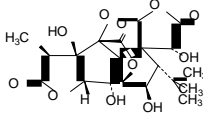
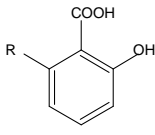
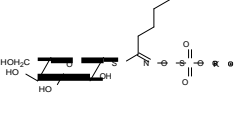
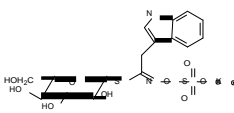
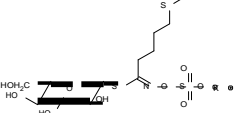
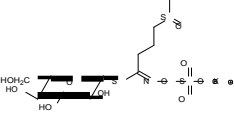
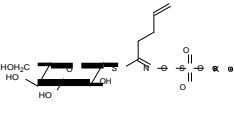
Catalogue of Natural Compounds

Compound		documents delivered	quantity
 <p>(-)-Epicatechin from <i>Acacia catechu</i></p> <p>Art. 3305.99 >99.0 % [490-46-0] C₁₅H₁₄O₆ M_r 290.27</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>(-)-Epicatechin gallate from <i>Camellia sinensis</i></p> <p>Art. 3307.RS >99.0 % [1257-08-5] C₂₂H₁₈O₁₀ M_r 442.38</p>		HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 50 mg
 <p>(-)-Epicatechin gallate from <i>Camellia sinensis</i></p> <p>Art. 3307.99 >99.0 % [1257-08-5] C₂₂H₁₈O₁₀ M_r 442.38</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>(-)-Epigallocatechin from <i>Camellia sinensis</i></p> <p>Art. 3306.RS >99.0 % [970-74-1] C₁₅H₁₄O₇ M_r 306.27</p>		HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 50 mg
 <p>(-)-Epigallocatechin from <i>Camellia sinensis</i></p> <p>Art. 3306.99 >99.0 % [970-74-1] C₁₅H₁₄O₇ M_r 306.27</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>(-)-Epigallocatechin gallate from <i>Camellia sinensis</i></p> <p>Art. 3308.RS >99.0 % [989-51-5] C₂₂H₁₈O₁₁ M_r 458.37</p>		HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg
 <p>(-)-Epigallocatechin gallate from <i>Camellia sinensis</i></p> <p>Art. 3308.99 >99.0 % [989-51-5] C₂₂H₁₈O₁₁ M_r 458.37</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>(-)-Epigallocatechin gallate from <i>Camellia sinensis</i></p> <p>Art. 3308.96 >96.0 % [989-51-5] C₂₂H₁₈O₁₁ M_r 458.37</p>		HPLC-DAD with UV-spectrum	100 mg

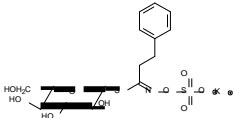
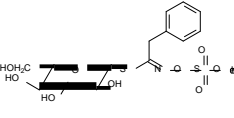
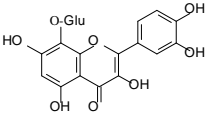
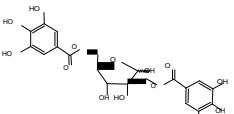
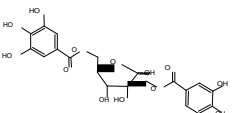
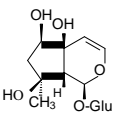
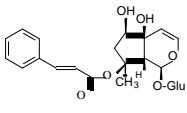
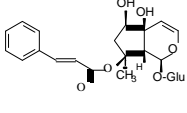
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Frangulin Mixture of A and B approx. 1:4 from <i>Rhamnus frangula</i> Art. 3270.97 >97.0 % [60529-33-1]</p>	HPLC-DAD with UV-spectrum	100 mg
 <p>Frangulin A Emodinrhamnoside, Rhamnoxanthin from <i>Rhamnus frangula</i> Art. 3268.98 >98.0 % [521-62-0] C₂₁H₂₀O₉ M_r 416.38</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Frangulin B 6-O-(Apiofuranosyl)-1,6,8-trihydroxy-3- methylantraquinone from <i>Rhamnus frangula</i> Art. 3269.98 >98.0 % [14101-04-3] C₂₀H₁₈O₉ M_r 402.36</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>(-)-Gallocatechin Gallocatechol from <i>Camellia sinensis</i> Art. 3309.RS >99.0 % [3371-27-5] C₁₅H₁₄O₇ M_r 306.27</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 20 mg 50 mg
 <p>(-)-Gallocatechin Gallocatechol from <i>Camellia sinensis</i> Art. 3309.99 >99.0 % [3371-27-5] C₁₅H₁₄O₇ M_r 306.27</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>[6]-Gingerol from <i>Zingiber officinale</i> Art. 4301.98 >98.0 % [23513-14-6] C₁₇H₂₆O₄ M_r 294.39</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>[8]-Gingerol from <i>Zingiber officinale</i> Art. 4302.98 >98.0 % [23513-08-8] C₁₉H₃₀O₄ M_r 322.44</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Ginkgolide A from <i>Ginkgo biloba</i> Art. 4251.98 >98.0 % [15291-75-5] C₂₀H₂₄O₉ M_r 408.41</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg

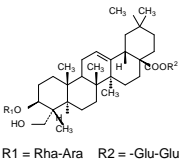
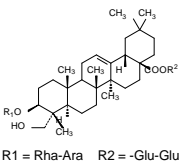
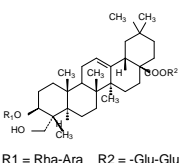
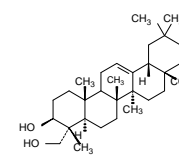
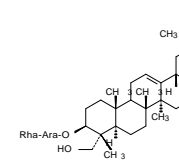
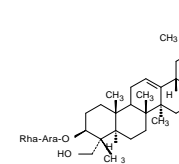
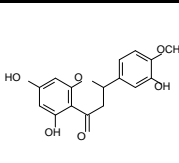
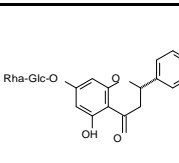
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Ginkgolide B 1-Hydroxyginkgolide A from Ginkgo biloba</p> <p>Art. 4250.99 >99.0 % [15291-77-7] C₂₀H₂₄O₁₀ M_r 424.40</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Ginkgolide C 1,7-Dihydroxyginkgolide A from Ginkgo biloba</p> <p>Art. 4252.95 >95.0 % [15291-76-6] C₂₀H₂₄O₁₁ M_r 440.40</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Ginkgolic acids RN from Ginkgo biloba</p> <p>Art. 4110.90 >90.0 % [-] C₂₀H₃₂O₃ / C₂₂H₃₄O₃ / C₂₄H₃₈O₃ M_r 320.5 / 346.5 / 374.6</p> <p>R = C₁₃H₂₇, C₁₅H₂₉, C₁₇H₃₃</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Glucobrassicinapin 4-Pentenylglucosinolat Kaliumsalz aus Brassica napus</p> <p>Art.-Nr. 3419.97 >97.0 % [19041-10-2] C₁₂H₂₀KNO₉S₂ M_r 443.52</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Glucobrassicin 3-Indolylmethylglucosinolat potassium salt aus Brassica oleracea</p> <p>Art. 3407.97 >97.0 % [4356-52-9] C₁₆H₁₉KN₂O₉S₂ M_r 486.26</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Glucoerucin 4-Methylthiobutylglucosinolat potassium salt from Eruca sativa</p> <p>Art. 3411.97 >97.0 % [21973-56-8] C₁₂H₂₂KNO₉S₃ M_r 459.61</p>	HPLC-DAD with UV- spectrum	10 mg 20 mg
 <p>Glucoiberin 3-(Methylsulfinyl)propylglucosinolat pot. salt from Iberis amara</p> <p>Art. 3413.99 >99.0 % [554-88-1] C₁₁H₂₀KNO₁₀S₃ M_r 461.56</p>	HPLC-DAD with UV- spectrum	10 mg 20 mg 50 mg
 <p>Gluconapin 3-Butenylglucosinolat potassium salt from Brassica napus</p> <p>Art. 3417.97 >97.0 % [19041-09-9] C₁₁H₁₈KNO₉S₂ M_r 429.50</p>	HPLC-DAD with UV- spectrum	10 mg 20 mg 50 mg

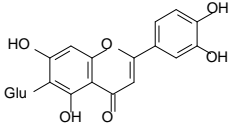
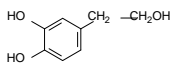
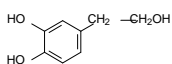
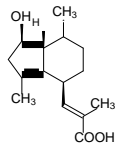
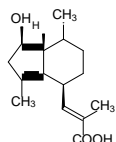
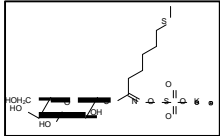
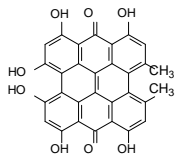
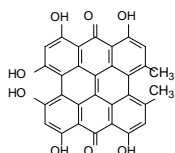
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Gluconasturtiin Phenylethylglucosinolate potassium salt from <i>Nasturtium officinale</i></p> <p>Art. 3405.97 >97.0 % [499-30-9] C₁₅H₂₀KNO₉S₂ M_r 461.16</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Glucotropaeolin Benzylglucosinolate potassium salt from <i>Tropaeolum majus</i></p> <p>Art. 3403.99 >99.0 % [5115-71-9] C₁₄H₁₈KNO₉S₂ M_r 447.52</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Gossypin Gossypetin-8-glucoside from <i>Hibiscus vitifolius</i></p> <p>Art. 3255.99 >99.0 % [652-78-8] C₂₁H₂₀O₁₃ M_r 480.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Hamamelitannin from <i>Hamamelis virginiana</i></p> <p>Art. 3315.99 >99.0 % [469-32-9] C₂₀H₂₀O₁₄ M_r 484.37</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Hamamelitannin from <i>Hamamelis virginiana</i></p> <p>Art. 3315.96 >96.0 % [469-32-9] C₂₀H₂₀O₁₄ M_r 484.37</p>	HPLC-DAD with UV-spectrum	50 mg 100 mg
 <p>Harpagide from <i>Harpagophytum procumbens</i></p> <p>Art. 2120.99 >99.0 % [6926-08-5] C₁₅H₂₄O₁₀ M_r 364.34</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Harpagoside 8-O-Cinnamoylharpagide from <i>Harpagophytum procumbens</i></p> <p>Art. 2121.RS >99.0 % [19210-12-9] C₂₄H₃₀O₁₁ M_r 494.48</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg
 <p>Harpagoside 8-O-Cinnamoylharpagide from <i>Harpagophytum procumbens</i></p> <p>Art. 2121.99 >99.0 % [19210-12-9] C₂₄H₃₀O₁₁ M_r 494.48</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg

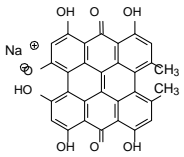
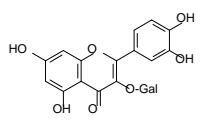
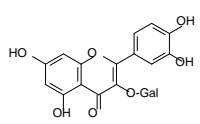
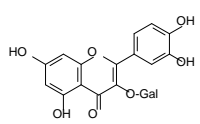
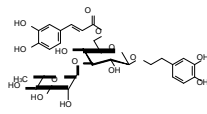
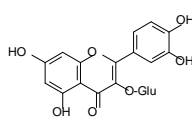
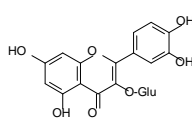
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Hederacoside C Hederasaponin C from Hedera helix</p> <p>Art. 5133.RS >99.0 % [14216-03-6] C₅₉H₉₆O₂₆ M_r 1221.39</p> <p>R1 = Rha-Ara R2 = -Glu-Glu-Rha</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg
 <p>Hederacoside C Hederasaponin C from Hedera helix</p> <p>Art. 5133.99 >99.0 % [14216-03-6] C₅₉H₉₆O₂₆ M_r 1221.39</p> <p>R1 = Rha-Ara R2 = -Glu-Glu-Rha</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg
 <p>Hederacoside C Hederasaponin C aus Hedera helix</p> <p>Art. 5133.95 >95.0 % [14216-03-6] C₅₉H₉₆O₂₆ M_r 1221.39</p> <p>R1 = Rha-Ara R2 = -Glu-Glu-Rha</p>	HPLC-DAD with UV-spectrum	50 mg 100 mg
 <p>Hederagenin from Hedera helix</p> <p>Art. 5135.98 >98.0 % [465-99-6] C₃₀H₄₈O₄ M_r 472.73</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>α-Hederin from Hedera helix</p> <p>Art. 5136.RS >99.0 % [27013-91-8] C₄₁H₆₆O₁₂ M_r 750.97</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 20 mg
 <p>α-Hederin from Hedera helix</p> <p>Art. 5136.99 >99.0 % [27013-91-8] C₄₁H₆₆O₁₂ M_r 750.97</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Hesperetin Cyanidanon-4'-methylether synthetic</p> <p>Art. 3320.98 >98.0 % [520-33-2] C₁₆H₁₄O₆ M_r 302.28</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Hesperidin Hesperetin-7-rutinoside, Cirantin from Citrus sinensis</p> <p>Art. 3321.98 >98.0 % [520-26-3] C₂₈H₃₄O₁₅ M_r 610.57</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg

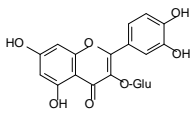
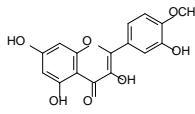
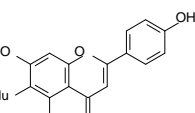
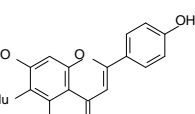
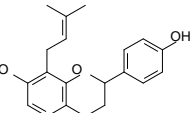
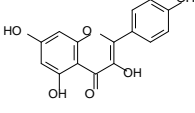
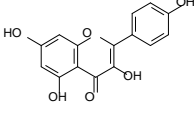
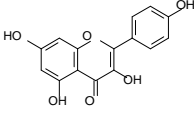
Catalogue of Natural Compounds

Compound		documents delivered	quantity
	<p>Homoorientin 6-C-Glucoluteolin, Isoorientin from <i>Adonis vernalis</i></p> <p>Art. 3277.99 >99.0 % [4261-42-1] C₂₁H₂₀O₁₁ M_r 448.38</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg
	<p>Hydroxytyrosol 3,4-Dihydroxyphenylethanol from <i>Olea europaea</i></p> <p>Art. 4440.RS >98.0 % [10597-60-1] C₈H₁₀O₃ M_r 154.17</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS	25 mg
	<p>Hydroxytyrosol 3,4-Dihydroxyphenylethanol from <i>Olea europaea</i></p> <p>Art. 4440.98 >98.0 % [10597-60-1] C₈H₁₀O₃ M_r 154.17</p>	HPLC-DAD with UV-spectrum	25 mg
	<p>Hydroxyvaleric acid from <i>Valeriana officinalis</i></p> <p>Art. 4401.RS >99.0 % [1619-16-5] C₁₅H₂₂O₃ M_r 250.34</p>	HPLC-DAD (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Elemental analysis Melting point	25 mg 50 mg 100 mg
	<p>Hydroxyvaleric acid from <i>Valeriana officinalis</i></p> <p>Art. 4401.99 >99.0 % [1619-16-5] C₁₅H₂₂O₃ M_r 250.34</p>	HPLC-DAD with UV-spectrum	25 mg 50 mg 100 mg
	<p>Glucoberteroin 4-Methylthiopentylglucosinolate potassium from <i>Berteroa incana</i></p> <p>Art. 3412.97 >97.0 % [29611-01-6] C₁₃H₂₄KNO₃S₃ M_r 473.64</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
	<p>Hypericin from <i>Hypericum perforatum</i></p> <p>Art. 3720.RS >99.0 % [548-04-9] C₃₀H₁₆O₈ M_r 504.45</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, hr-MS, Melting point	10 mg 20 mg
	<p>Hypericin from <i>Hypericum perforatum</i></p> <p>Art. 3720.98 >98.0 % [548-04-9] C₃₀H₁₆O₈ M_r 504.45</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg

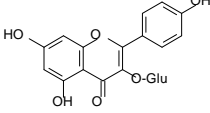
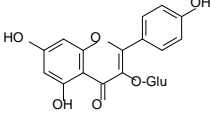
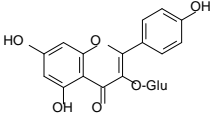
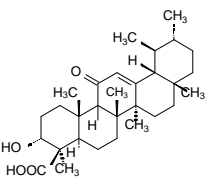
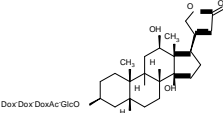
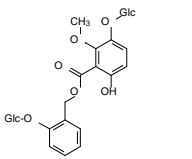
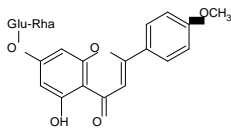
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Hypericin Sodium salt from <i>Hypericum perforatum</i> Art. 3721.98 >98.0 % [-] C₃₀H₁₅O₈Na M_r 526.45</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
 <p>Hyperoside Hyperin, Quercetin-3-galactoside from <i>Hypericum perforatum</i> Art. 3252.RS >99.0 % [482-36-0] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD (2 methods), TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg 100 mg
 <p>Hyperoside Hyperin, Quercetin-3-galactoside from <i>Hypericum perforatum</i> Art. 3252.99 >99.0 % [482-36-0] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg
 <p>Hyperoside Hyperin, Quercetin-3-galactoside from <i>Hypericum perforatum</i> Art. 3252.97 >97.0 % [482-36-0] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD with UV-spectrum	100 mg
 <p>Isoacteoside Isoverbascoside from <i>Harpagophytum procumbens</i> Art. 6102.99 >99.0 % [61303-13-7] C₂₉H₃₆O₁₅ M_r 624.59</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
<p>Isoorientin see Homoorientin</p>		
 <p>Isoquercitrin Quercetin-3-glucoside from <i>Sambucus nigra</i> Art. 3254.RS >99.0 % [21637-25-2] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD (2 methods), TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg 100 mg
 <p>Isoquercitrin Quercetin-3-glucoside from <i>Tiliae officinalis</i> Art. 3254.99 >99.0 % [21637-25-2] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg

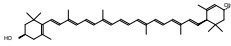
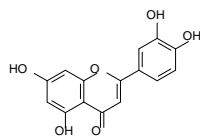
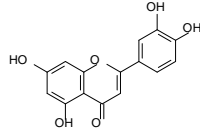
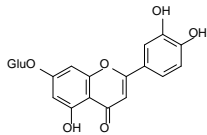
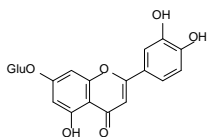
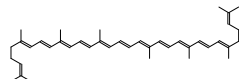
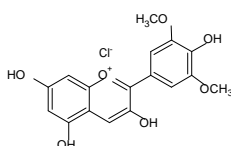
Catalogue of Natural Compounds

Compound		documents delivered	quantity
 <p>Isoquercitrin Quercetin-3-glucosid aus Tiliae officinalis</p> <p>Art. 3254.97 >97.0 % [21637-25-2] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD with UV-spectrum	50 mg 100 mg	
 <p>Isorhamnetin 4'-O-Methylquercetin from Calendula officinalis</p> <p>Art. 3251.98 >98.0 % [480-19-3] C₁₆H₁₂O₇ M_r 316.27</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg	
 <p>Isovitexin from Saponaria officinalis</p> <p>Art. 3230.RS >99.0 % [38953-85-4] C₂₁H₂₀O₁₀ M_r 432.38</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	5 mg 10 mg	
 <p>Isovitexin from Saponaria officinalis</p> <p>Art. 3230.99 >99.0 % [38953-85-4] C₂₁H₂₀O₁₀ M_r 432.38</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg	
 <p>Isoxanthohumol from Humulus lupulus</p> <p>Art. 3325.99 >99.0 % [70872-29-6] C₂₁H₂₂O₅ M_r 354.40</p>	HPLC-DAD with UV-Spectrum	10 mg 20 mg 50 mg	
 <p>Kaempferol Robigenin, Trifolitin from Aesculus hippocastanum</p> <p>Art. 3240.RS >99.0 % [520-18-3] C₁₅H₁₀O₆ M_r 286.24</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg 100 mg	
 <p>Kaempferol Robigenin, Trifolitin from Aesculus hippocastanum</p> <p>Art. 3240.99 >99.0 % [520-18-3] C₁₅H₁₀O₆ M_r 286.24</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg	
 <p>Kaempferol Robigenin, Trifolitin from Aesculus hippocastanum</p> <p>Art. 3240.97 >97.0 % [520-18-3] C₁₅H₁₀O₆ M_r 286.24</p>	HPLC-DAD with UV-spectrum	250 mg 500 mg	

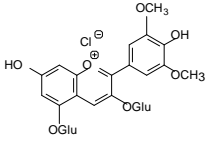
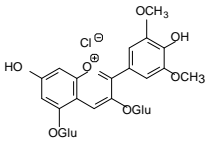
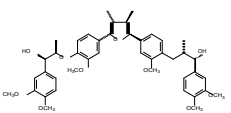
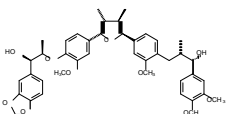
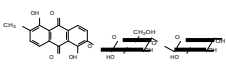
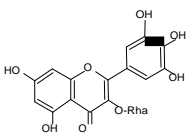
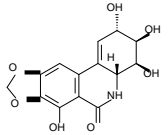
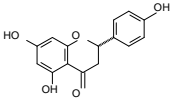
Catalogue of Natural Compounds

Compound		documents delivered	quantity
 <p>Kaempferol-3-glucoside Astragalin from <i>Aesculus hippocastanum</i> Art. 3242.RS >99.0 % [480-10-4] C₂₁H₂₀O₁₁ M_r 448.38</p>		HPLC-DAD (2 methods), TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 20 mg
 <p>Kaempferol-3-glucoside Astragalin from <i>Aesculus hippocastanum</i> Art. 3242.99 >99.0 % [480-10-4] C₂₁H₂₀O₁₁ M_r 448.38</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Kaempferol-3-glucoside Astragalin from <i>Aesculus hippocastanum</i> Art. 3242.97 >97.0 % [480-10-4] C₂₁H₂₀O₁₁ M_r 448.38</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>11-Keto-β-boswellic acid 3α-Hydroxy-urs-12-ene-11-keto-23-acid from <i>Boswellia serrata</i> Art. 5152.99 >99.0 % [17019-92-0] C₃₀H₄₆O₄ M_r 470.69</p>		HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg
<p>Kuromaninchlorid see Cyanidin-3-glucoside chloride</p>			
 <p>Lanatoside C Digilanid C from <i>Digitalis lanata</i> Art.-Nr. 5103.99 >99 % [17575-22-3] C₄₉H₇₆O₂₀ M_r 985.14</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Leiocarposide 2'-Hydroxybenzyl-3-methoxybenzoate-2',4'-diglucoside from <i>Solidago virgaurea</i> Art.-Nr. 2125.99 >99 % [71953-77-0] C₂₇H₃₄O₁₆ M_r 614.56</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Linarin Acacetin-7-rutinosid from <i>Linaria vulgaris</i> Art. 3210.98 >98.0 % [480-36-4] C₂₈H₃₂O₁₄ M_r 592.57</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg

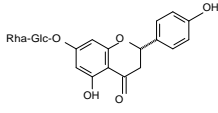
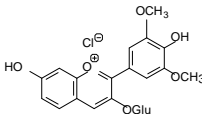
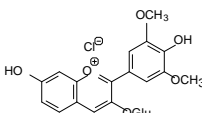
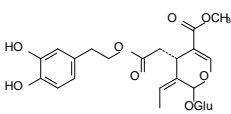
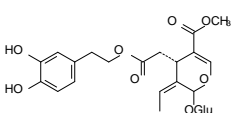
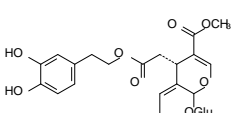
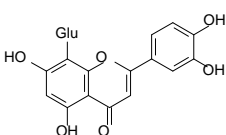
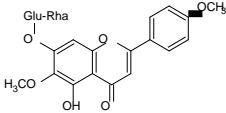
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Lutein Xanthophyll, β,ε-Carotene-3,3'-diol from Brassica oleracea</p> <p>Art. 4205.90 >90 % [127-40-2] C₄₀H₅₆O₂ M_r 568.88</p>	HPLC-DAD with UV-spectrum	5 mg
 <p>Luteolin Digitoflavone from Reseda luteola</p> <p>Art. 3260.RS >99.0 % [491-70-3] C₁₅H₁₀O₆ M_r 286.23</p>	HPLC-DAD, TLC, 1H-NMR, 13C-NMR - (with Interpretation), UV, IR, MS, Melting point	50 mg
 <p>Luteolin Digitoflavone from Reseda luteola</p> <p>Art. 3260.99 >99.0 % [491-70-3] C₁₅H₁₀O₆ M_r 286.23</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg
 <p>Luteolin-7-glucoside Glucoluteolin from Reseda luteola</p> <p>Art. 3262.RS >99.0 % [5373-11-5] C₂₁H₂₀O₁₁ M_r 448.38</p>	HPLC-DAD (2 methods) TLC, 1H-NMR, 13C-NMR - (with Interpretation), UV, IR, MS, Melting point	50 mg
 <p>Luteolin-7-glucoside Glucoluteolin from Reseda luteola</p> <p>Art. 3262.99 >99.0 % [5373-11-5] C₂₁H₂₀O₁₁ M_r 448.38</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg
 <p>Lycopene ψ,ψ-Carotene, (all-trans)-Lycopene from Solanum lycopersicum</p> <p>Art. 4207.90 >90 % [502-65-8] C₄₀H₅₆ M_r 536.88</p>	HPLC-DAD with UV-spectrum	5 mg
<p>Malvidin-3-glucoside see Oeninchlorid</p>		
 <p>Malvidin chloride from Malva silvestris</p> <p>Art. 5008.97 >97.0 % [643-84-5] C₁₇H₁₅ClO₇ M_r 366.75</p>	HPLC-DAD with UV-spectrum	10 mg

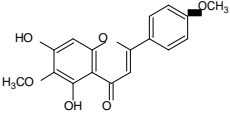
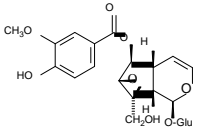
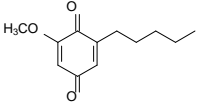
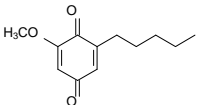
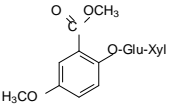
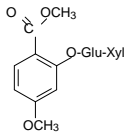
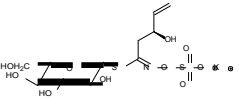
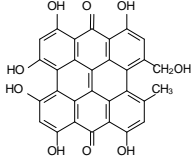
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Malvin chloride Malvidin-3,5-diglucoside chloride from <i>Malva silvestris</i> Art. 5005.97 >97.0 % [16727-30-3] C₂₉H₃₅ClO₁₇ M_r 691.04</p>	HPLC-DAD with UV-spectrum	20 mg
 <p>Malvin chloride Malvidin-3,5-diglucoside chloride from <i>Malva silvestris</i> Art. 5005.90 >90.0 % [16727-30-3] C₂₉H₃₅ClO₁₇ M_r 691.04</p>	HPLC-DAD with UV-spectrum	100 mg
 <p>Manassantin A from <i>Saururus chinensis</i> Art.-Nr. 3101.98 >98.0 % [88497-87-4] C₄₂H₅₂O₁₁ M_r 732.34</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Manassantin B from <i>Saururus chinensis</i> Art.-Nr. 3103.98 >98.0 % [88497-88-5] C₄₁H₄₈O₁₁ M_r 716.30</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Morindin aus <i>Morinda citrifolia</i> Art.-Nr. 3271.95 >95.0 % [60450-21-7] C₂₆H₂₈O₁₄ M_r 564.50</p>	HPLC-DAD mit UV-Spektrum	10 mg
 <p>Myricitrin Myricetin-3-O-rhamnosid, Myricitrosid from <i>Myrica cerifera</i> Art. 3258.99 >99.0 % [17912-87-7] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Narciclasin Lycoricidinol from <i>Narcissus pseudonarcissus</i> Art. 6350.97 >97.0 % [29477-83-6] C₁₄H₁₃NO₇ M_r 307.26</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Naringenin Naringetol, Pelarginadon from <i>Citrus paradisi</i> Art. 3323.98 >98.0 % [480-41-1] C₁₅H₁₂O₅ M_r 272.26</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg

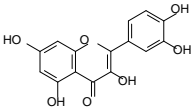
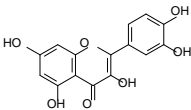
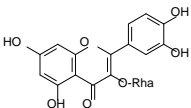
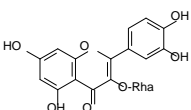
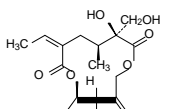
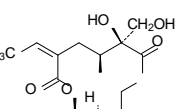
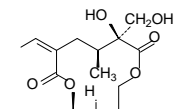
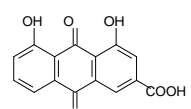
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Naringin Naringenin-7-rhamnoglucoside, Aurantiin from Citrus paradisi</p> <p>Art. 3322.99 >99.0 % [10236-47-2] C₂₇H₃₂O₁₄ M_r 580.54</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Oenin chloride Malvidin-3-glucoside from Vitis vinifera</p> <p>Art. 5007.85 >85.0 % [7228-78-6] C₂₃H₂₅ClO₁₂ M_r 528.88</p>	HPLC-DAD mit UV-Spektrum	100 mg
 <p>Oenin chloride Malvidin-3-glucoside from Vitis vinifera</p> <p>Art. 5007.97 >97.0 % [7228-78-6] C₂₃H₂₅ClO₁₂ M_r 528.88</p>	HPLC-DAD mit UV-Spektrum	10 mg 20 mg
 <p>Oleuropein from Olea europaea</p> <p>Art. 2111.RS >98.0 % [32619-42-4] C₂₅H₃₂O₁₃ M_r 540.52</p>	HPLC-DAD, TLC, 1H-NMR, 13C-NMR - (with Interpretation), UV, IR, MS, Melting point	50 mg
 <p>Oleuropein from Olea europaea</p> <p>Art. 2111.98 >98.0 % [32619-42-4] C₂₅H₃₂O₁₃ M_r 540.52</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Oleuropein from Olea europaea</p> <p>Art. 2111.90 >90.0 % [32619-42-4] C₂₅H₃₂O₁₃ M_r 540.52</p>	HPLC-DAD with UV-spectrum	500 mg 1000 mg
 <p>Orientin 8-C-Glucoluteolin, Lutexin from Adonis vernalis</p> <p>Art. 3276.99 >99.0 % [28608-75-5] C₂₁H₂₀O₁₁ M_r 448.36</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg
 <p>Pectolinarin Pectolinaroside, Neolinarin from Linaria vulgaris</p> <p>Art. 3211.98 >98.0 % [28978-02-1] C₂₉H₃₄O₁₅ M_r 622.58</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg

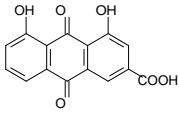
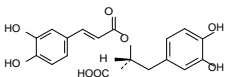
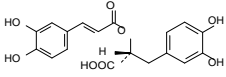
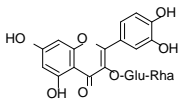
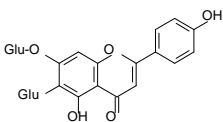
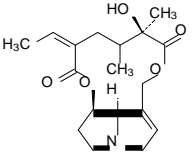
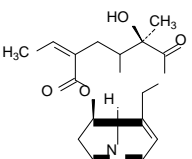
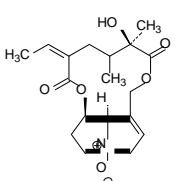
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Pectolarigenin 5,7-Dihydroxy-4',6-dimethoxyflavon from <i>Linaria vulgaris</i></p> <p>Art. 3212.97 >97.0 % [520-12-7] C₁₇H₁₄O₆ M_r 314.30</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Picroside II 6-Vanilloylcatalpol from <i>Picrorhiza kurrooa</i></p> <p>Art. 2104.98 >98.0 % [39012-20-9] C₂₃H₂₈O₁₃ M_r 512.47</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Primin 2-Methoxy-6-pentyl-p-benzoquinone synthetic</p> <p>Art. 1001.RS >99.0 % [15121-94-5] C₁₂H₁₆O₃ M_r 208.26</p>	HPLC-DAD (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point, Elemental analysis	20 mg 50 mg
 <p>Primin 2-Methoxy-6-pentyl-p-benzoquinone synthetic</p> <p>Art. 1001.99 >99.0 % [15121-94-5] C₁₂H₁₆O₃ M_r 208.26</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg
 <p>Primulaverin from <i>Primula veris</i></p> <p>Art. 4101.99 >99.0 % [154-61-0] C₂₀H₂₈O₁₃ M_r 476.43</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Primverin from <i>Primula veris</i></p> <p>Art. 4102.99 >99.0 % [154-60-9] C₂₀H₂₈O₁₃ M_r 476.43</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Progoitrin 2-Hydroxybut-3-enylglucosinilat potassium salt from <i>Brassica napus</i></p> <p>Art. 3415.97 >97.0 % [585-95-5] C₁₁H₁₈KNO₁₀S₂ M_r 427.48</p>	HPLC-DAD with UV- spectrum	10 mg 20 mg 50 mg
 <p>Pseudohypericin from <i>Hypericum perforatum</i></p> <p>Art. 3272.97 >97.0 % [55954-61-5] C₃₀H₁₆O₉ M_r 520.43</p>	HPLC-DAD with UV-spectrum	5 mg 10 mg 20 mg

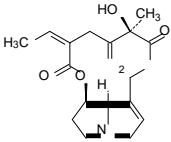
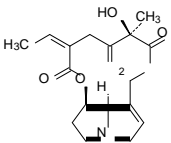
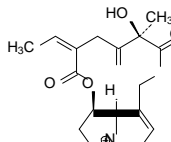
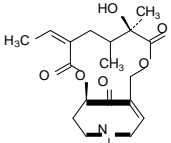
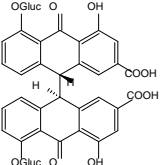
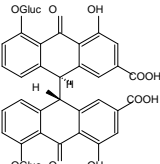
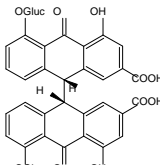
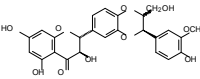
Catalogue of Natural Compounds

Compound		documents delivered	quantity
	<p>Quercetin Sophoretin, Meletin synthetic from Rutin</p> <p>Art. 3201.RS >99.0 % [117-39-5] C₁₅H₁₀O₇ M_r 302.24</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point, Elemental analysis	20 mg 50 mg 100 mg
	<p>Quercetin Dihydrate Sophoretin, Meletin Synthetic from Rutin</p> <p>Art. 3201.99 >99.0 % [6151-25-3] C₁₅H₁₀O₇·2H₂O M_r 338.27</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg
	<p>Quercitrin Quercetin-rhamnoside from Aesculus hippocastanum</p> <p>Art. 3253.RS >99.0 % [522-12-3] C₂₁H₂₀O₁₁ M_r 448.38</p>	HPLC-DAD (2 methods) TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg 20 mg 50 mg
	<p>Quercitrin Quercetin-rhamnoside from Aesculus hippocastanum</p> <p>Art. 3253.99 >99.0 % [522-12-3] C₂₁H₂₀O₁₁ M_r 448.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
	<p>Retrorsine β-Longilobin, 12,18-Dihydroxysenecionan- 11,16-dione, from Senecio retrorsus</p> <p>Art. 6203.98 >98.0 % [480-54-6] C₁₈H₂₅NO₆ M_r 351.40</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
	<p>Retrorsine β-Longilobin, 12,18-Dihydroxysenecionan-</p> <p>Art. 6203.95 >95.0 % [480-54-6] C₁₈H₂₅NO₆ M_r 351.40</p>	HPLC-DAD with UV-spectrum	100 mg
	<p>Retrorsine N-oxid oxid; from Senecio retrorsus</p> <p>Art. 6253.96 >96.0 % [15503-86-3] C₁₈H₂₅NO₇ M_r 367.40</p>	HPLC-DAD with UV-spectrum	10 mg
	<p>Rhein Cassic acid, Crysazin-3-carboxylic acid from Rheum palmatum</p> <p>Art. 3272.99 >99.0 % [478-43-3] C₁₅H₈O₆ M_r 284.23</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg

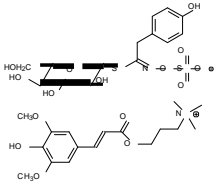
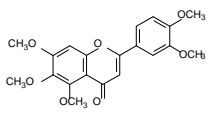
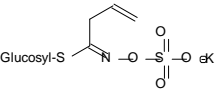
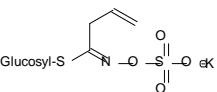
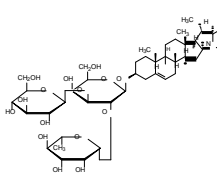
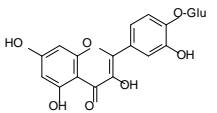
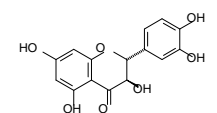
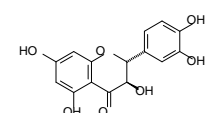
Catalogue of Natural Compounds

Compound		documents delivered	quantity
	<p>Rhein Cassic acid, Crysazin-3-carboxylic acid from <i>Rheum palmatum</i></p> <p>Art. 3272.97 >97.0 % [478-43-3] C₁₅H₈O₆ M_r 284.23</p>	HPLC-DAD with UV-spectrum	250 mg
	<p>Rosmarinic acid from <i>Rosmarinus officinalis</i></p> <p>Art. 6130.RS >99.0 % [20283-92-5] C₁₈H₁₆O₈ M_r 360.32</p>	HPLC-DAD, TLC ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point, water content, residue of solvent	20 mg 50 mg
	<p>Rosmarinic acid from <i>Rosmarinus officinalis</i></p> <p>Art. 6130.99 >99.0 % [20283-92-5] C₁₈H₁₆O₈ M_r 360.32</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
	<p>Rutin Rutoside, Quercetin-3-rutinoside, Sophorin from <i>Sophora japonica</i></p> <p>Art. 3256.99 >99.0 % [153-18-4] C₂₇H₃₀O₁₆ M_r 610.52</p>	HPLC-DAD with UV-spectrum	50 mg 100 mg
	<p>Saponarin from <i>Saponaria officinalis</i></p> <p>Art. 3232.99 >99.0 % [20310-89-8] C₂₇H₃₀O₁₅ M_r 594.53</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
	<p>Senecionine from <i>Senecio vulgaris</i></p> <p>Art. 6202.RS >99.0 % [130-01-8] C₁₈H₂₅NO₅ M_r 335.39</p>	HPLC-DAD, GC-MS - (with Interpretation),	20 mg
	<p>Senecionine Aureine, 12-Hydroxysenecionan-11,16-dione</p> <p>Art. 6202.99 >99.0 % [130-01-8] C₁₈H₂₅NO₅ M_r 335.39</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
	<p>Senecionine-N-oxid 12-Hydroxysenecionan-11,16-dion-4-oxid from <i>Senecio vulgaris</i></p> <p>Art. 6252.95 >95.0 % [13268-67-2] C₁₈H₂₅NO₆ M_r 351.39</p>	HPLC-DAD with UV-spectrum	10 mg

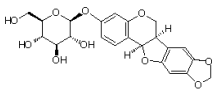
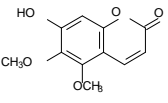
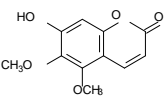
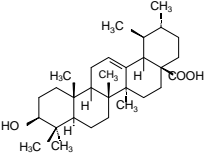
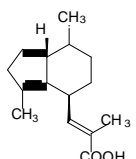
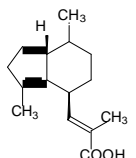
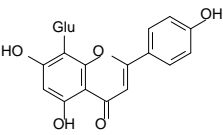
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Seneciphylline Jacodine, α-Longilobine</p> <p>Art. 6201.RS >99.0 % [480-81-9] C₁₈H₂₃NO₅ M_r 333.38</p>	HPLC-DAD, GC-MS, TLC, ¹ H-NMR, ¹³ C-NMR UV, IR, MS, Melting point	20 mg 50 mg
 <p>Seneciphylline Jacodine, α- Longilobine</p> <p>Art. 6201.99 >99.0 % [480-81-9] C₁₈H₂₃NO₅ M_r 333.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Seneciphylline-N-oxid from <i>Senecio vulgaris</i></p> <p>Art. 6251.97 >97.0 % C₁₈H₂₃NO₆ M_r 349.37</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Senkirkin Renardine from <i>Tussilago farfara</i></p> <p>Art. 6203.95 >95.0 % [2318-18-5] C₁₉H₂₇NO₆ M_r 365.4</p>	HPLC-DAD with UV-spectrum	10 mg
 <p>Sennoside A from <i>Cassia angustifolia</i></p> <p>Art. 3280.98 >98.0 % [81-27-6] C₄₂H₃₈O₂₀ M_r 862.72</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Sennoside A1 Sennosid A', Sennosid G from <i>Cassia angustifolia</i></p> <p>Art. 3282.95 >95.0 % [66575-30-2] C₄₂H₃₈O₂₀ M_r 862.72</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Sennoside B from <i>Cassia angustifolia</i></p> <p>Art. 3281.98 >98.0 % [128-57-4] C₄₂H₃₈O₂₀ M_r 862.72</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg 50 mg
 <p>Silybin Diastereomeric mixture of Silybin A and B Silibinin, Silymarin from <i>Silybum marianum</i></p> <p>Art. 3215.98 >98.0 % [22888-70-6] C₂₅H₂₂O₁₀ M_r 482.44</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg

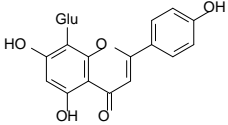
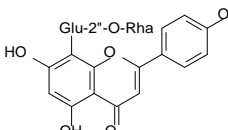
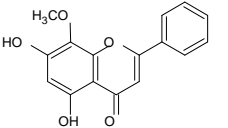
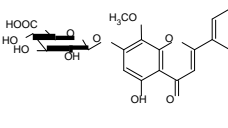
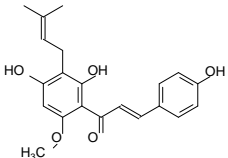
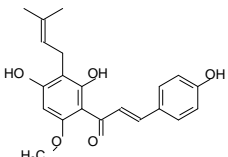
Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Sinalbin from <i>Sinapis alba</i> Art. 3409.99 >99.0 % [20196-67-2] C₃₀H₄₂NO₁₄S₂ M_r 704.80</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg
 <p>Sinensetin from <i>Orthosiphon stamineus</i> Art. 3263.98 >98.0 % [2306-27-6] C₂₀H₂₀O₇ M_r 372.38</p>	HPLC-DAD with UV-Spektrum	10 mg 20 mg
 <p>Sinigrin Monohydrate Sinigroside, Allylglucosinolate from <i>Sinapis nigra</i> Art. 3401.99 >99.0 % [3952-98-5] C₁₀H₁₆KNO₉S₂ · H₂O M_r 415.48</p>	HPLC-DAD with UV-spectrum	50 mg
 <p>Sinigrin Monohydrate Sinigroside, Allylglucosinolate from <i>Sinapis nigra</i> Art. 3401.97 >97.0 % [3952-98-5] C₁₀H₁₆KNO₉S₂ · H₂O M_r 415.48</p>	HPLC-DAD with UV-spectrum	1 g
 <p>α-Solanin Tomatin, Solatunin aus <i>Solanum tuberosum</i> Art.-Nr. 6207.99 >99.0 % [20562-02-1] C₄₅H₇₃NO₁₅ M_r 868.044</p>	HPLC-DAD with UV-spektrum	20 mg 50 mg
 <p>Spiraeoside Quercetin-4'-glucoside from <i>Filipendula ulmaria</i> Art. 3257.98 >98.0 % [20229-56-5] C₂₁H₂₀O₁₂ M_r 464.38</p>	HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>(+)-Taxifolin Dihydroquercetin, Distylin from <i>Pseudozuga menziesii</i> Art. 3211.RS >99.0 % [480-18-2] C₁₅H₁₂O₇ M_r 304.24</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	20 mg 50 mg 100 mg
 <p>(+)-Taxifolin Dihydroquercetin, Distylin from <i>Pseudozuga menziesii</i> Art. 3211.99 >99.0 % [480-18-2] C₁₅H₁₂O₇ M_r 304.24</p>	HPLC-DAD with UV-spectrum	20 mg 50 mg 100 mg

Catalogue of Natural Compounds

Compound	documents delivered	quantity
 <p>Trifolirhizin from <i>Baptisia tinctoria</i> Art. 3225.96 >96.0 % [6807-83-6] C₂₂H₂₂O₁₀ M_r 446.40</p>	HPLC-DAD with UV-Spektrum	20 mg
 <p>Umckalin 7-Hydroxy-5,6-dimethoxycumarin from <i>Pelargonium sidoides</i> Art. 3501.RS >99.0 % [43053-62-9] C₁₁H₁₀O₅ M_r 222.19</p>	HPLC-DAD ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	5 mg 10 mg 20 mg
 <p>Umckalin 7-Hydroxy-5,6-dimethoxycumarin from <i>Pelargonium sidoides</i> Art. 3501.99 >99.0 % [43053-62-9] C₁₁H₁₀O₅ M_r 222.19</p>	HPLC-DAD with UV-Spektrum	10 mg
 <p>Ursolic acid (3β)-3-Hydroxy-12-ursen-28-oic acid from <i>Arctostaphylos uva ursi</i> Art.-Nr. 5121.99 >99.0 % [77-52-1] C₃₀H₄₈O₃ M_r 456.71</p>	HPLC-DAD with UV-Spektrum	20 mg 50 mg
 <p>Valeric acid from <i>Valeriana officinalis</i> Art. 4400.RS >99.0 % [3569-10-6] C₁₅H₂₂O₂ M_r 234.34</p>	HPLC-DAD/UV (2 methods), TLC (2 methods), ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point, Elemental analysis	25 mg 50 mg 100 mg
 <p>Valeric acid from <i>Valeriana officinalis</i> Art. 4400.99 >99.0 % [3569-10-6] C₁₅H₂₂O₂ M_r 234.34</p>	HPLC-DAD with UV-spectrum	25 mg 50 mg 100 mg
<p>Verbascoside see Acteoside</p>		
 <p>Vitexin 8-Glucosylapigenin, Orientoside from <i>Crataegus monogyna</i> Art. 3234.RS >99.0 % [3681-93-4] C₂₁H₂₀O₁₀ M_r 432.38</p>	HPLC-DAD, TLC, ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point	10 mg

Catalogue of Natural Compounds

Compound		documents delivered	quantity
 <p>Vitexin 8-Glucosylapigenin, Orientoside from <i>Crataegus monogyna</i> Art. 3234.99 >99.0 % [3681-93-4] C₂₁H₂₀O₁₀ M_r 432.38</p>		HPLC-DAD with UV-spectrum	5 mg 10 mg
 <p>Vitexin-2''-O-rhamnoside from <i>Crataegus monogyna</i> Art. 3236.99 >99.0 % [64820-99-1] C₂₇H₃₀O₁₄ M_r 587.53</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Wogonin 5,7-Dihydroxy-8-methoxyflavon from <i>Scutellaria baicalensis</i> Art. 3213.97 >97.0 % [632-85-9] C₁₆H₁₂O₅ M_r 284.27</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Wogonoside Wogonin-7-β-D-glucopyranosidouronat from <i>Scutellaria baicalensis</i> Art. 3214.97 >97.0 % [518-18-5] C₂₂H₂₀O₁₁ M_r 460.39</p>		HPLC-DAD with UV-spectrum	10 mg 20 mg
 <p>Xanthohumol from <i>Humulus lupulus</i> Art. 3324.99 >99.0 % [6754-58-1] C₂₁H₂₂O₅ M_r 354.41</p>		HPLC-DAD, TLC ¹ H-NMR, ¹³ C-NMR - (with Interpretation), UV, IR, MS, Melting point, water content, residue of solvent	20 mg 50 mg
 <p>Xanthohumol from <i>Humulus lupulus</i> Art. 3324.RS >99.0 % [6754-58-1] C₂₁H₂₂O₅ M_r 354.41</p>		HPLC-DAD with UV-spectrum	20 mg 50 mg

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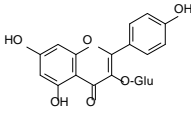


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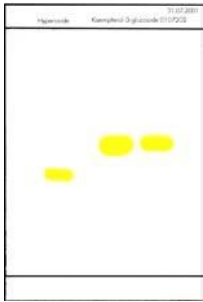
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Certificate of analysis of a reference substance: Kaempferol-3-glucoside

 Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg	
CERTIFICATE OF ANALYSIS		
Date: 31.07.2001 CA-No.: 1051/1		
Product name: Kaempferol-3-glucoside		
Basic data Name: Kaempferol-3-glucoside Batch No.: 0107202 CAS-No.: [480-10-4] Formula: C ₂₁ H ₂₀ O ₁₁ Molecular weight: 448.39 Storage temperature: 4 °C Source: Aesculus hippocastanum Stability: 3 years Date of manufacture: July 2001 Article No.: 3242.RS	Molecular formula 	
Determination	Specification	Results
Properties Aspect: yellow needles Solubility: soluble in hot methanol, low soluble in water Identity: Melting point: 165-175 °C (methanol/water) NMR* ¹ H: accordant to reference spectrum ¹³ C: accordant to reference spectrum IR*: consistent with structure UV*: accordant to reference spectrum FAB-MS*: λ _{max} [nm] = 348, 265 ± 2 log ε _{max} = 4.20, 4.32 ± 0.05 molecular ion peak at m/z 449 [M+H] ⁺ Purity: TLC*: 1 spot HPLC*: content of impurities at 254 nm: < 1.0 % at spectrum max plot: < 1.0 % Assay: HPLC: 99.0 % at 254 nm, Spectrum Max Plot		
Results: 168-170 °C; conforms conforms conforms conforms λ _{max} [nm] = 349.38; 265.52 log ε _{max} 4.21, 4.31 peak at m/z 449; conforms 1 spot; conforms 0.49 %; conforms 0.64 %; conforms 99.51, 99.36 %; conforms		
Result: The product meets the requirements		
 Dr. M. Diehm (Quality Control)		 Dr. K. Neuberger (Quality Assurance)

 Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg
Analytical Report to the Certificate of Analysis (CA)	
CA-No.: 1051/1 Date: 31.07.2001 page: 1 of 15	
Kaempferol-3-glucoside Batch No.: 0107202	
Content Table	page
1. Manufacturing Procedure 2. Characteristics 3. Melting Point 4. TLC-Analysis 5. HPLC-Analysis 6. ¹ H-NMR-Spectrum 7. ¹³ C-NMR-Spectrum 8. FT-IR-Spectrum 9. UV-VIS-Spectrum 10. FAB*-MASS Spectrum 11. Instrumentation 12. References	2 2 2 3 4 6 9 11 12 13 14 15

Pflanzliche Wirkstoffe und Analytik	Im Neuenheimer Feld 519 D-69120 Heidelberg
Analytical Report to the Certificate of Analysis (CA)	
CA-No.: 1051/1 Date: 31.07.2001 page: 2 of 15	
Kaempferol-3-glucoside Batch No.: 0107202	
1. Manufacturing Procedure Kaempferol-3-glucoside was isolated from the blooms of aesculus hippocastanum by an extraction process with methanol and ethyl acetate. A pure product was obtained by preparative column chromatography on an RP18-phase with methanol / water as eluent. The substance was crystallized from methanol / water (9:1) and dried at 40 °C / 10 mbar over a period of 24 hours.	
2. Characteristics Kaempferol-3-glucoside is stable to moisture and air and has only low tendency to be hydrolysed or to be oxidized. No hygroscopy was observed. In order to prevent any decomposition it should be stored at a dry place in a refrigerator.	
3. Melting Point Found: 168-170 °C (water / methanol 9:1) Ref. ^[1] : 177-178 °C (methanol)	

 Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg
Analytical Report to the Certificate of Analysis (CA)	
CA-No.: 1051/1 Date: 31.07.2001 page: 3 of 15	
Kaempferol-3-glucoside Batch No.: 0107202	
4. TLC-Analysis Parameters Stationary phase: Silica gel 60 F ₂₅₄ , 0.20 mm thickness (Art.-No. 1.05554, Merck, Darmstadt, Ger.) Mobile phase: Ethyl acetate / formic acid / water (20/2/3; v/v/v) Sample solvent: Methanol Development length: 10 cm Retention factor: R _f = 0.54 (chamber saturation) Detection: UV ₂₅₄ , Diphenylboryloxethylamine (Naturstoffreagenz A), 10 % in ethanol, after drying spraying with macrogel 400 / 10 min. at 110 °C, visualized at UV ₃₆₅ Applied quantities: 20, 10 µg Chromatogram: 1 spot with one very weak impurity below at R _f = 0.49 (UV ₃₆₅) Reference: Hyperoside	
TLC-Chromatogram (1:1)	
R _f / dm 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0	
Trace 1: Hyperoside Trace 2 + 3 : Kaempferol-3-glucoside, 20 µg, 10 µg; after spraying with Naturstoffreagenz A	

Certificate of analysis of a reference substance: Kaempferol-3-glucoside

PHYTOPLAN Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg																																										
Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1 Date: 31.07.2001 page: 4 of 15																																											
Kaempferol-3-glucoside Batch No.: 0107202																																											
5. HPLC-Analysis Column Typ: Eurospher 100-5 C18, 250 x 4 mm with integrated precolumn 5 x 4 mm Sample solvent: Methanol Mobile phase: Methanol/Acetonitril/Phosphoric acid pH 2.5 (34/10/56, v/v/v) Detection: DAD, 210-450 nm Injection vol.: 5 µl, c = 0.5 mg/ml Flow rate: 1.00 ml/min. Temperature: 20 °C																																											
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1 Date: 31.07.2001 page: 6 of 15	
Kaempferol-3-glucoside Batch No.: 0107202	
<p>* A Spectrum Max Plot is a chromatogram with each point plotted at its maximum absorbance. This plot gives an indication of the appearance of the chromatogram when the wavelengths are optimized for each peak.</p>	

Pflanzliche Wirkstoffe und Analytik	Im Neuenheimer Feld 519 D-69120 Heidelberg
Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1 Date: 31.07.2001 page: 6 of 15	
Kaempferol-3-glucoside Batch No.: 0107202	
6. ¹ H-NMR-Spectrum 300 MHz, 297 K, solvent: DMSO-d ₆	

PHYTOPLAN Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg			
Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1 Date: 31.07.2001 page: 7 of 15				
Kaempferol-3-glucoside Batch No.: 0107202				
¹ H-NMR-Spectrum Peak List				
Peak no	Point	ppm	Frequency (Hz)	Height
1	5562	12.615	3786.298	31.957
2	13010	8.053	2417.001	20.649
3	13020	8.047	2415.231	6.195
4	13030	8.041	2413.433	1.677
5	13058	8.024	2408.226	22.744
6	13072	8.015	2405.679	2.719
7	14838	6.897	2089.324	21.729
8	14920	6.883	2085.969	1.733
9	14948	6.866	2060.671	21.903
10	15652	6.435	1931.239	16.198
11	15662	6.429	1929.564	14.782
12	16020	6.209	1863.668	16.893
13	16032	6.202	1861.490	15.684
14	17226	5.470	1641.880	9.302
15	17264	5.447	1634.924	9.091
16	17434	5.343	1603.761	7.577
17	17458	5.329	1599.297	7.794
18	17906	5.054	1517.011	5.768
19	17930	5.039	1512.515	5.966
20	18084	4.945	1484.314	4.300
21	19180	4.274	1282.791	3.266
22	19210	4.256	1277.294	6.910
23	19240	4.237	1271.781	3.033
24	20294	3.591	1077.920	2.900
25	20320	3.576	1073.166	3.168
26	20352	3.556	1067.300	3.658
27	20382	3.538	1061.774	3.624
28	20888	3.228	968.804	1.514
29	20914	3.212	963.891	3.200
30	20934	3.199	960.206	5.344
31	20954	3.188	956.681	4.687
32	20970	3.178	953.711	3.822
33	20994	3.163	949.200	3.991
34	21128	3.080	924.523	9.123

Certificate of analysis of a reference substance: Kaempferol-3-glucoside

Pflanzliche Wirkstoffe und Analytik	Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
page: 8 of 15

Kaempferol-3-glucoside
Batch No.: 0107202

¹H-NMR-Spectrum
300 MHz, 297 K, solvent: DMSO-d₆

Assignment of the signals
[500 MHz, solvent: CDCl₃, temperature: 303 K]

Assignment of the signals

Proton at C-Atom	Chemical shift	Comparison data ^[1]	Solvent-signals, OH-signals
6	6.21, d (2.0 Hz)	6.21, d (2.0 Hz)	2.50 (DMSO)
8	6.43, d (2.0 Hz)	6.44, d (2.0 Hz)	3.33 (water signal of the solvent)
2"	8.04, d (8.8 Hz)	8.04, d (8.8 Hz)	5.33, 5.04, 4.93, 4.25 (OH-signals),
3"	6.88, d (9.4 Hz)	6.88, d (8.8 Hz)	12.62 (OH-O hydrogen bridge)
5"	6.88, d (9.4 Hz)	6.88, d (8.8 Hz)	
6"	8.04, d (8.8 Hz)	8.04, d (8.8 Hz)	
1"	5.46, d (7.3 Hz)	5.45, d (7.4 Hz)	
2"	3.08-3.19 m	no data cited	
3"	3.08-3.19 m		
4"	3.08-3.19 m		
5"	3.08-3.19 m		
6"A	3.08-3.19 m		
6"B	3.55, dd (5.0 Hz, 11.5 Hz)		

The assignment was performed with the help of the data given in Ref.^[1].

PHYTOPLAN Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
page: 9 of 15

Kaempferol-3-glucoside
Batch No.: 0107202

7. ¹³C-NMR-Spectrum
75 MHz, 297 K, solvent: DMSO-d₆

Pflanzliche Wirkstoffe und Analytik	Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
page: 10 of 15

Kaempferol-3-glucoside
Batch No.: 0107202

¹³C-NMR-Spectrum
75 MHz, 297 K, solvent: DMSO-d₆

Assignment of the signals

C-Atom	Chemical shift	Comparison data ^[1]	Solvent-signals
2	156.4	156.3	38.7 – 40.4 (DMSO)
3	133.3	133.0	
4	177.5	177.5	
5	161.2	161.1	
6	98.7	98.7	
7	164.1	164.1	
8	93.7	93.6	
9	156.3	156.3	
10	104.1	104.1	
1"	121.0	121.0	
2"	130.9	130.7	
3"	115.1	115.0	
4"	160.0	159.8	
5"	115.1	115.0	
6"	130.9	130.7	
1"	101.0	101.4	
2"	74.3	74.2	
3"	76.5	76.5	
4"	70.0	70.1	
5"	77.5	77.2	
6"	60.9	61.0	

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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
page: 11 of 15

Kaempferol-3-glucoside
Batch No.: 0107202

8. FT-IR-Spectrum
KBr-Pellet

No	cm-1	%T	Intensity	No	cm-1	%T	Intensity
1	554.00	74.025	W	15	1246.00	67.923	M
2	584.00	72.624	W	16	1286.00	56.564	M
3	636.00	71.563	M	17	1353.00	52.707	S
4	657.00	72.603	W	18	1442.00	60.393	M
5	797.00	73.287	W	19	1466.00	69.857	M
6	837.00	76.953	W	20	1506.00	53.644	M
7	965.00	78.205	W	21	1558.00	59.498	M
8	993.00	68.545	M	22	1579.00	64.324	M
9	1017.00	54.019	M	23	1607.00	46.474	S
10	1066.00	49.720	S	24	1649.00	48.716	S
11	1091.00	66.601	M	25	2897.00	60.715	M
12	1112.00	67.993	M	26	2920.00	60.451	M
13	1181.00	43.075	S	27	3435.00	27.965	VS
14	1220.00	64.628	M	28	3524.00	34.486	S

Certificate of analysis of a reference substance: Kaempferol-3-glucoside

Pflanzliche Wirkstoffe und Analytik	Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
Kaempferol-3-glucoside page: 12 of 15
Batch No.: 0107202

9. UV-VIS-Spectrum
Solvent: Methanol (UVASOL, Merck)
Conc.: 6.7×10^{-5} mol/l

Result

Maxima: λ_{max} [nm]	log ϵ_{max}	Minima: λ_{min} [nm]	log ϵ_{min}
349.38	4.21	282.17	3.99
265.52	4.31	240.55	4.10

Data given in Ref.^[1]: λ_{max} [nm] log ϵ : 348.7 (4.20), 265.5 (4.35).

PHYTOPLAN Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
Kaempferol-3-glucoside page: 13 of 15
Batch No.: 0107202

10. FAB⁺-MASS Spectrum

Result

The measurement technic of the FAB⁺-MS mode leads to the molecule ions [M+H]⁺ and [M+Na]⁺. The peaks at m/z 449 (448+1) and m/z 471 (448+23) show the expected molecular mass (448) of Kaempferol-3-glucoside. Most other detected peaks derived from the NBA-matrix.

Pflanzliche Wirkstoffe und Analytik	Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
Kaempferol-3-glucoside page: 14 of 15
Batch No.: 0107202

11. Instrumentation

Determination	Apparatus
Melting Point	MEL-TEMP II apparatus, Laboratory Devices, USA
HPLC-Analysis	Pump: Shimadzu LC-10ADvp Detector (DAD): Shimadzu SPD-M10Avp Injector: Rheodyne 7725i, 10 μ L loop
¹ H-NMR-Spectrum	Bruker AM 300
¹³ C-NMR-Spectrum	Bruker AM 300
UV-VIS-Spectrum	Varian CARY 2300 Spectralphotometer
FT-IR-Spektrum	FT-IR-Spectrometer 1760X Perkin-Elmer
FAB ⁺ -MASS Spectrum	JEOL JMS-700

PHYTOPLAN Pflanzliche Wirkstoffe und Analytik	PHYTOPLAN Diehm & Neuberger GmbH Im Neuenheimer Feld 519 D-69120 Heidelberg
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Analytical Report to the Certificate of Analysis (CA) CA-No.: 1051/1
Date: 31.07.2001
Kaempferol-3-glucoside page: 15 of 15
Batch No.: 0107202

12. References

- [1] T. Sekine et al., Chem. Pharm. Bull., 1993, 41(6), 1185-87.
- [2] K. R. Markham, T. J. Mabry, Carbon-13 NMR Studies of Flavonoids-III, Tetrahedron, 1978, 34, 1389-97.