

## Reference Substances for Herbal Products

# New Products 2018/2019

The latest edition of our **phyproof®** Reference Substance Catalogue comprises now well over 1300 comprehensively characterized and documented reference substances ideally suited for quality control purposes of herbal products. A total of **133 new compounds** have been included in the 2018/2019 catalogue. Some **product highlights** are shown below. For a complete listing of all newly added **phyproof®** Reference Substances please see the reverse.



New **phyproof**<sup>®</sup> Reference Substances added to the 2018/2019 catalogue. For a complete listing of all reference substances & natural product categories please see our main catalogue or visit our webshop.

Classification	Product #	Reference Substance
<b>1 Alcohols &amp; Phenols</b>		
1.2 Phenols	84252	Protosappanin B
<b>2 Aldehydes &amp; Ketones</b>		
2.2 Ketones	84200	Alnustone
	84224	5-Hydroxy 1,7-diphenyl 6-hepten 3-one
	84249	Paeonolide
<b>3 Flavonoids</b>		
3.1 Chalcones & Dihydrochalcones	84235	Loureirin B
<b>3.3 Flavanones</b>		
3.3.1 O-Glycosides	84233	Liquiritin apioside
	84242	Neoeriocitrin
	84243	Neoliquiritin
3.5 Flavones	84211	5,7-Dimethoxyflavone
	84264	3',5,7-Trihydroxy 4',5',6'-trimethoxyflavone
3.5.1 3-Hydroxyflavones	84219	3,3',4',5,6,7,8-Heptamethoxyflavone
	84217	Grosvenorine
3.5.1.1 O-Glycosides	84228	Kaempferol 3-gentiobioside
	84254	Rhodosin
	82676	Typhaneoside
	84234	Lonicerin
3.5.2 O-Glycosides	84271	Luteolin 3'-glucuronide
	84129	Neodiosmin
	84247	Oroxilin A 7-glucuronide
	84193	Vitexin 2''-glucoside
<b>3.5.3 C-Glycosides</b>		
<b>3.6 Isoflavones</b>		
3.6.2 C-Glycosides	84238	3'-Methoxypuerarin
	84240	Mirificin
	84253	Puerarin 6''-xyloside
3.7 Anthocyanidins	80225	Petunidin chloride
<b>4 Glucosinolates</b>		
4 Glucosinolates	84216	Glucoraphasatin potassium salt
<b>5 Isoprenoids</b>		
5.1.1.2 Monocyclic monoterpenes	82240	R-(+)-Pulegone
5.1.1.3 Bicyclic monoterpenes	82584	(+)-Menthofuran
5.1.2 Iridoids	82700	8-Acetylharpagide
	84198	Ajugol
	84202	Asperulosidic acid
	84207	Deacetylasperulosidic acid methyl ester
	84237	Melitioside
83949	Valtrate	
5.1.3 Sesquiterpenes	84204	Brevilin A
5.1.4 Diterpenes	84210	14-Deoxyandrographolide
	84178	Grayanotoxin I
	84229	Kaurenoic acid
	84255	Rhodojaponin II
5.1.4.1 O-Glycosides	84195	Atractyloside
	84196	Carboxyatractyloside
	84145	Rebaudioside E
	84146	Rebaudioside M
	84261	Steviol 19'-glucoside
5.1.6 Triterpenes	84170	Absinthin
5.1.6.1 Triterpene saponin	84199	Alisol B
	84046	Curcubitacin A
	89669	Ganoderic acid B
	84214	Ganoderic acid D
	89672	Ganoderic acid F
	84241	Mogrol
	84246	Oleanonic acid
	84256	Rotundic acid
	84201	Araloside A
	84205	Chikusetsusaponin IVa
84215	Ginsenoside Rg5	
84218	Hederacoside D	
84220	Hosenkoside A	
84221	Hosenkoside B	
84222	Hosenkoside C	
84223	Hosenkoside K	
84225	Ilexsaponin A	
84226	Isomogroside V	
84244	Notoginsenoside Fa	
84245	Notoginsenoside R2	
84248	11-Oxomogroside III-E	
84259	Soyasaponin Aa	
84260	Soyasaponin Ba	
84263	Terminolide	
84265	Tubeimoside II	
84266	Tubeimoside III	
84269	Ziyuglycoside I	
84270	Ziyuglycoside II	
5.2.1 Sterols	83941	Condurango glycoside A
	83940	Condurango glycoside E2
	84213	Fucosterol
	84272	Taraxasterol

Classification	Product #	Reference Substance
5.2.3 Cardenolides & Bufadienolides	80739	Helveticoside
<b>6 Nitrogen-containing Compounds</b>		
6 Nitrogen-containing Compounds	83962	Calvatic acid
6.1 Amines	84156	Sinapine chloride
6.2 Amides	84212	N-trans-Feruloyltyramine
<b>6.7 Alkaloids</b>		
6.7.1 Pyridine-, Pyrazine-, Piperidine-, Pyrrolidine-, Quinolizidine-type	84054	Pipermethystine
	84268	Wilforgine
6.7.2 Pyrrolizidine-type	84275	7-Acetyllycopsamine N-oxide
	84094	Echinatine (alkaloid)
	84093	Echinatine N-oxide
6.7.3 Quinoline-, Isoquinoline-, Phenanthridine-, Quinazoline-type	83996	Corydaline
	84231	Koumine
6.7.4 Indole-, $\beta$ -Carboline-type	84037	Rescinnamine
	84143	Serpentine hydrogen tartrate
	84230	Khasianine
6.7.7 Steroid alkaloids	84088	Apoatropine hydrochloride
	84104	Amosopolamine
	84120	Homatropine hydrobromide
	84090	6 $\beta$ -Hydroxytropinone
	84107	Noratropine
	84109	Norscopolamine
	84089	Nortropinone hydrochloride
	84098	Phyllalbine
	84099	Pseudotropine
	84116	Scopolamine N-oxide hydrobromide
	84096	Tropine
	84095	Tropinone
	<b>7 Organic acids &amp; Esters</b>	
7.2 Benzoic acid derivatives	84203	Atranorin
	82266	Fumarprotocetraric acid
	84191	Protocetraric acid
<b>8 Phenylpropanes</b>		
8.1 Stilbenes	84227	Isorhapontigenin
8.2 Coumarins	84208	Decursinol
	84209	Decursinol angelate
	84250	(+)-Peucedanol
8.2.1 Furocoumarins	82564	Isobergapten
	84236	(+)-Marmesin
8.3 Lignans	83180	Cubebin
	84166	Hinokinin
	84075	$\alpha$ -Peltatin
	84251	Pinoresinol 4-glycoside
	84262	(-)-Syringaresinol 4-(2''-apiosylglucoside)
	84273	Syringylglycerol 8-O-4'-sinapyl ether 7-glycoside
84194	Yatein	
8.4 Chromones & Xanthenes	84232	Lancerin
	84239	7-O-Methylmangiferin
	84060	Methylophopogonanone A
	84057	Methylophopogonanone B
8.5 Cinnamic acid derivatives	84053	Artepillin C
	84142	Cimicifugic acid B
	84141	Cimicifugic acid F
	84257	Sibiricose A5
	84258	Sibiricose A6
	84192	Teupolioside
84267	Tubuloside A	
<b>9 Quinones</b>		
<b>9.4 Anthraquinones</b>		
9.4.1 O-Glycosides	84206	Chrysophanol 8-glycoside
	84189	Glucofrangulin A
	84190	Glucofrangulin B
<b>10 Tannins</b>		
10.1 Catechins	84047	Procyanidin B3

PhytoLab GmbH & Co. KG  
**phyproof**<sup>®</sup> Reference Substances  
 Dutendorfer Str. 5-7  
 91487 Vestenbergsgreuth  
 Germany

Phone: +49 9163 88-395  
 Fax: +49 9163 88-456  
 ref-substances@phytolab.de  
<http://phyproof.phytolab.de>