

PhytoLab GmbH & Co. KG Dutendorfer Straße 5 - 7

91487 Vestenbergsgreuth

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## PhytoLab

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		Cust.No: 96888					
Certificate of analysis							
Report-No.:12012181299 002Batch:12267Article:89230Queroatin 3-glucosManufacturing date:09/2021Expiry date:09/2026	side						
Test	Unit	Limit	Testresult				
Appearance, SOP 100005		powder	Conform				
Color, SOP 100006		yellow	Conform				
Solubility, SOP 105001: Methanol Water Ethanol 96 %		soluble slightly soluble soluble	Conform Conform Conform Conform				
Identification (HPLC-MS/MS), SOP 204120		Conform	Conform				
Identification (UV spectrum from HPLC-DAD analysis) according to specification, SOP 204311		Conform	Conform				
Identification (IR-spectroscopy, Ph.Eur. 10.3, 2.2.24)/USP 43 NF 37 <197>), SOP 206000	Conform	Conform					
Identification (1H-NMR-spectroscopy), (outsourced), SOP 206010		Conform	Conform				
Identification (13C-NMR-spectroscopy), (outsourced), SOP 206020		Conform	Conform				
Purity test (TLC), SOP 211088	Conform	Conform					



**PhytoLab** 

## Certificate of analysis

Report-No.: Batch:	120121812 12267	- 99 002			
Article:	89230	Quercetin 3-gluco	side		
Test			Unit	Limit	Testresult
Water content, (micr titration), Ph.Eur. 10 Vers. 2018-01: Mean value	o determinatio .0., 2.5.32, SO	n, coulometric 304291	%		3.0
			70		
Peakpurity, (HPLC),	SOP 401367			Conform	Conform
Quercetin glycoside SOP 442159: Quercetin 3-glucoside	s (HPLC), mult	method	%	>= 95.00	99.80
Residual solvents, (I Residual solvents	headspace-GC	;), SOP 805765;	%		< 0.05
Inorganic impurities, substances, SOP 81	(ICP-MS), for 1701:	reference	5		
Sodium			%		< 0.1
Potassium			%		< 0.1
Magnesium		•	%		< 0.1
Calcium Aluminium			<b>%</b>		< 0.1 < 0.1
Phosphorus			Xo o/		< 0.1 < 0.1
Sulfur			%		< 1.0
Candi					
Content, SOP 89000 (100 - water - residu impurities) x chroma	al solvents - in	organic	%	5.	97

This PhytoLab phyproof® reference standard is by definition a primary reference standard and does not need to be qualified against any other reference standard. The identity of the reference standard has been substantiated by at least two independent analytical methods such as IR, NMR, UV or MS analysis. A mass balance approach, which takes chromatographic purify into account, as well as the contents of water, residual solvents, inorganic impurities, and the counter ion (if the reference standard is present as a salt) is applied in the calculation of the absolute purity as given in this COA (see description of SOP 8900XX).

The absolute purity value (and not just the chromatographic purity result obtained by means of HPLC or GC) must be used in all quantitative calculations as the chromatographic techniques do not yet account for water, residual solvents and inorganic impurities.

Further information:

Shelf life/stability: The stated expiration date applies when the reference substance is stored in the original unopened container within the specified temperature range. PhytoLab does not guarantee the stability of the reference substance once the vial has been opened.

Long-term storage and handling: the reference standard should be stored in the original unopened vial, protected against light and humidity in an airtight container, within the temperature range given on the label and accompanying data sheet. If stored below room temperature, the vial should be warmed up to room temperature in a desiccator before it is opened in order to avoid condensation of humidity. The user assumes responsibility for deciding how previously opened reference standard





## Certificate of analysis

Report-No.: Batch:	120121812 12267	2 - 99 002		
Article:	89230	Quercetin 3-glucoside		
Test		Unit	Limit	Testresult

vials should be used and the user must ensure that the contents of opened vials are still suitable for their intended use.

Exact weight: the exact weight of each vial is given on the label of the inner vial to two decimal places. This information may be used to produce stock solutions of a known concentration without having to weigh in the reference substance again. If used for this purpose, the content of the vial must be quantitatively transferred to a volumetric flask and filled up to the required level. Please note that PhytoLab is unable to guarantee the stability of the reference standard in solution.

Intended use: this reference standard is so ely intended for laboratory analytical purposes, research & development, and scientific teaching and training purposes. It may not be used for any other purpose and particularly not for use in or the production of, food, animal feed, human or veterinary drugs, cosmetics, medicinal products or diagnostic agents, including in-vitro diagnostic agents. PhytoLab is unable to guarantee the suitability of this reference standard for any particular application other than its qualitative and quantitative use in chromatography and identification testing.

Further information about this reference standard can be found on the accompanying data sheet or in our webshop. Spectral and chromatographic data and a description of the applied chromatographic method, are provided in the attachments to this COA. A detailed explanation of all data given on the COA can be found in the guide that is available from the download area in our webshop, where you can also download all of the safety data sheets.

Vestenbergsgreuth, 16.09.21

Dr. Michael Schwarz Head of Reference Substances

This is a computer print and valid without signature. A signed certificate of analysis can be taken of request.