

PhytoLab GmbH & Co. KG Dutendorfer Str. 5-7 91487 Vestenbergsgreuth

PhytoLab GmbH & Co. KG  
Dutendorfer Straße 5 - 7  
91487 Vestenbergsgreuth

PhytoLab GmbH & Co. KG  
Dutendorfer Str. 5-7  
91487 Vestenbergsgreuth  
Germany

Contact:

phyproof® Reference Substances

Tel: +49(0)9163/88-395

Fax: +49(0)9163/88-456

ref-substances@phytolab.de

Date: 17.04.20

Cust.No: 96888

### Certificate of analysis

Report-No.: 105066805 - 99 002  
Batch: 9680  
Article: 83286 Icariside II

Test	Unit	Limit	Testresult
Appearance, SOP 100005		powder	Conform
Color, SOP 100006		yellow	Conform
Solubility, SOP 105001: Methanol		soluble	Conform Conform
Identification (HPLC-HR/MS), SOP 204125		Conform	Conform
Identification (UV spectrum from HPLC-DAD analysis) according to specification, SOP 204311		Conform	Conform
Identification (IR-spectroscopy, Ph.Eur. 9.0, 2.2.24)/USP 42 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
Water content, (micro determination, coulometric titration), Ph.Eur. 10.0., 2.5.32, SOP 304291: Mean value	%		2.2
Peakpurity, (HPLC), SOP 401367		Conform	Conform

**Certificate of analysis**

Report-No.: 105066805 - 99 002  
 Batch: 9680  
 Article: 83286 Icariside II

Test	Unit	Limit	Testresult
Icariside II (HPLC), method 1 (% AU), SOP 441288	%	>= 95.00	98.90
Residual solvents, (headspace-GC), SOP 805765: Residual solvents	%		3.10
Inorganic impurities, (ICP-MS), for reference substances, SOP 811701:			
Sodium	%		< 0.1
Potassium	%		< 0.1
Magnesium	%		< 0.1
Calcium	%		< 0.1
Aluminium	%		< 0.1
Phosphorus	%		< 0.1
Content*, SOP 890000	%		94

**Assessment:**

The above mentioned reference substance meets the specification.

\*The absolute content is calculated considering the chromatographic purity, and if available, the content of water, residual solvents and inorganic impurities according to the following formula:  
 Content = (100% - water content (%) - residual solvents (%) - inorganic impurities (%)) x chromatographic purity (%) / 100.

The chromatographic purity is checked regularly: the last analysis has been performed in April 2020.

The reference substance cannot be documented with an expiry date. The pack is closed and is recommended to be stored as indicated. The unopened product is guaranteed to fulfill the specifications of this analytical report for a period of 60 months. Once opened we can no longer guarantee the stability of the material.

Vestenbergsgreuth, 17.04.20

Dr. Michael Schwarz  
 Manager Reference Substances

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