the nature network®

PhytoLab

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: 22.01.21

Cust.No: 96888

Certificate of analysis

Report-No.: 114936847 - 99 002
Batch: 17229
Article: 89153 3-O-Acetyl 11-keto-beta-boswellic acid

Test	Unit	Limit	Testresult
Appearance, SOP 100005		powder	Conform
Color, SOP 100006		white	Conform
Solubility, SOP 105001:			Conform
Methanol		soluble	Conform
Water		insoluble	Conform
Acetone		soluble	Conform
Ethanol 96 %		soluble	Conform
Diethyl ether		soluble	Conform
Chloroform		soluble	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. 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
Water content, (micro determination, coulometric titration), Ph.Eur. 10.0., 2.5.32, SOP 304291:			
Mean value	%		0.2

Certificate of analysis

Report-No.: 114936847 - 99 002
Batch: 17229
Article: 89153 3-O-Acetyl 11-keto-beta-boswellic acid

Test	Unit	Limit	Testresult
3-O-Acetyl-11-keto-beta-boswellic acid (HPLC), method 2 (% AU), SOP 400209	%	>= 98.00	100.00
Peakpurity, (HPLC), SOP 401367		Conform	Conform
Residual solvents, (headspace-GC), SOP 805765:			
Residual solvents	%		0.81
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
Sulfur	%		< 1.0
Content*, SOP 890000	%		99

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 December 2020.

The reference substance cannot be documented with an expiry date. The pack is closed an 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, 22.01.21

Dr. Jan Glaser
Manager Reference Substances

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