

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: 10.03.20

Cust.No: 96888

Certificate of analysis

Report-No.: 102077954 - 99 002

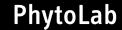
Batch: 1540

Article: 80632 Withanoside IV

| Test | Unit | Limit | Testresult |
|--|------|---|---|
| Appearance, SOP 100005 | | powder | Conform |
| Color, SOP 100006 | • | white | Conform |
| Solubility, SOP 105001: Methanol Water Ethanol 96 % n-Hexane | | soluble slightly soluble soluble insoluble | Conform Conform Conform 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 |
| Peakpurity, (HPLC), SOP 401367 | | Conform | Conform |
| Withanoside IV (HPLC), method 1 (% AU), SOP 440834 | % | >= 90.00 | 98.69 |
| | | | |

Assessment:

The above mentioned reference substance meets the specification.





Certificate of analysis

Report-No.: 102077954 - 99 002

Batch: 15401

Article: 80632 Withanoside IV

Test Unit Limit Testresult

The chromatographic purity is checked regularly: the last analysis has been performed in February 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, 10.03.20

Dr. Jan Glaser Manager Reference Substances

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

0