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Date: 11.02.19

Cust.No: 96888

Certificate of analysis

Report-No.: 72505072-09-002
Batch: 3381
Article: 80339 Picrotoxinin

Test	Unit	Limit	Testresult
Appearance, SOP 100005		powder	Conform
Color, SOP 100006		white	Conform
Solubility, SOP 105001: Ethanol 96 %		soluble	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. 9.0, 2.2.24)/USP 39 NF 34 <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 211407		Conform	Conform
Water content, (micro determination, coulometric titration), Ph.Eur. 9.4., 2.5.32, SOP 304291: Mean value	%		< 0.2

Certificate of analysis

Report-No.: 72505972 - 99 002
 Batch: 3381
 Article: 80339 Picotoxinin

Test	Unit	Limit	Testresult
Picotoxinin (HPLC), method 2, (% AU), SOP 401055	%	>= 95.00	99.10
Peakpurity, (HPLC), SOP 401367		Conform	Conform
Residual solvents, (headspace-GC), SOP 805765: Residual solvents	%		< 0.05
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	%		< 0.1
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 February 2019.

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.

Vestenbergsreuth, 11.02.19

Dr. Jan Glaser

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