

Certificate of Analysis

Reference Standard

Gabapentin



This certificate is valid for two years from the date of shipment provided the substance is stored under the recommended conditions unopened in the original container.





The identity of the reference substance was established by following analyses.

Ia. ¹H-NMR Spectrum

Conditions: 400 MHz, CD₃OD



The structure is confirmed by the signals of the spectrum and their interpretation.





Method: 3.5 kV ESI+; vaporization temperature: 269 °C







Method: Attenuated Total Reflection Fourier Transform Infrared (ATR-FTIR) Spectroscopy



The signals of the IR spectrum and their interpretation are consistent with the structural formula.

II. Purity

IIa. High Performance Liquid Chromatography (HPLC)

The purity of the reference substance was analysed by high performance liquid chromatography (HPLC).

HPLC Conditions:			
Column:	Conditions:	Detector:	Injector:
Asahipak NH2P-50 4E).8 ml/min, 40 °C	CAD	Auto
5 µm, 250 x 4.6 mm	0-10 min Water/Acetonitrile 25/75		2 µl; 0.406 mg/ml in
10-15 min Water/Acetonitrile to 5/95			Water/Acetonitrile 20/80 (v/v)
	15-20 min Water/Acetonitrile 5/95		
2	20-28 min Water/Acetonitrile to 25/75		
	28-35 min Water/Acetonitrile 25/75 (v/v)		







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Method: ¹H-NMR

No significant amounts of residual solvents were detected (< 0.05 %).

III. Final Result	
Chromatographic purity (HPLC)	100.00 %
Water content	0.53 %
Residual solvents	No significant amounts of residual solvents were detected (< 0.05 %).
Assay (100 % method) ¹	99.47 %
The	e assay is assessed to be 99.5 % 'as is'
The assay 'as is' is equivalent to th	ne assay based on the not anhydrous and not dried substance
respectively.	
Release Date:	
Luckenwalde, 2020-11-04	Jackson Dr. Sabine Schröder Product Release
¹ The calculation of the 100 % method follo	ows the formula:

Assay (%) = (100 % - volatile contents) * -

Purity (%) 100 %

Volatile contents are considered as absolute contributions, purity is considered as relative contribution.



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