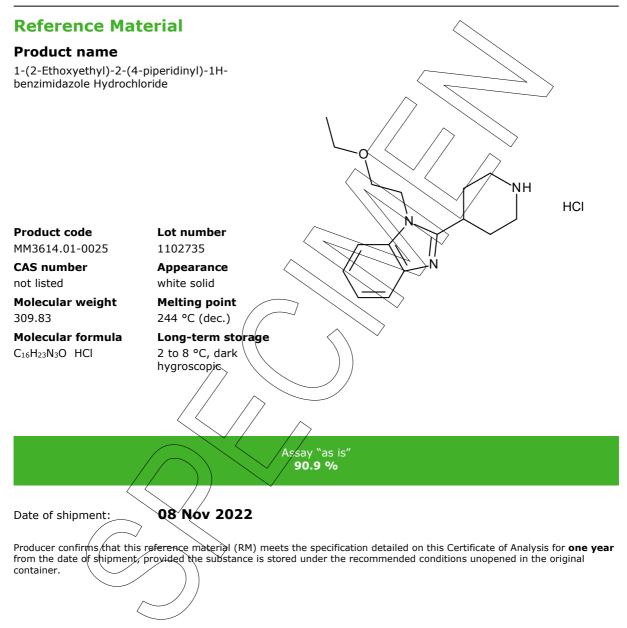


Certificate of Analysis



Release by:	Date of Release:	P	Product Delegas
Dr. Sabine Schröder	Luckenwalde, 22 Oct 2020	John P	Product Release

Organisation certified to ISO 9001 | DQS 102448 and GMP (EXCiPACTTM)

Producer: LGC GmbH Louis-Pasteur-Str. 30 D-14943 Luckenwalde Germany www.lgcstandards.com

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Product information

For laboratory use only. Not suitable for human or animal consumption.

Before usage of the RM, it should be allowed to warm to room temperature. No drying required, as the certified value is already corrected for the content of water and other volatile materials.

The product quality is controlled by regularly performed quality control/tests (retests).

Further content

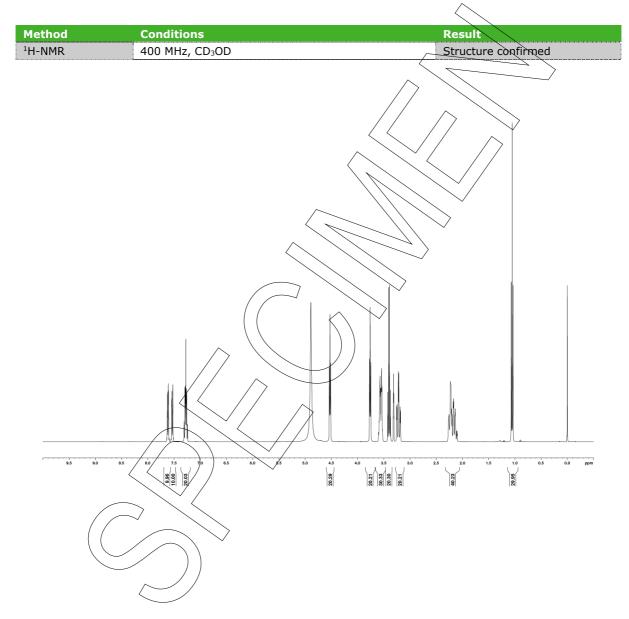
Identity Assay Final result

Revision table

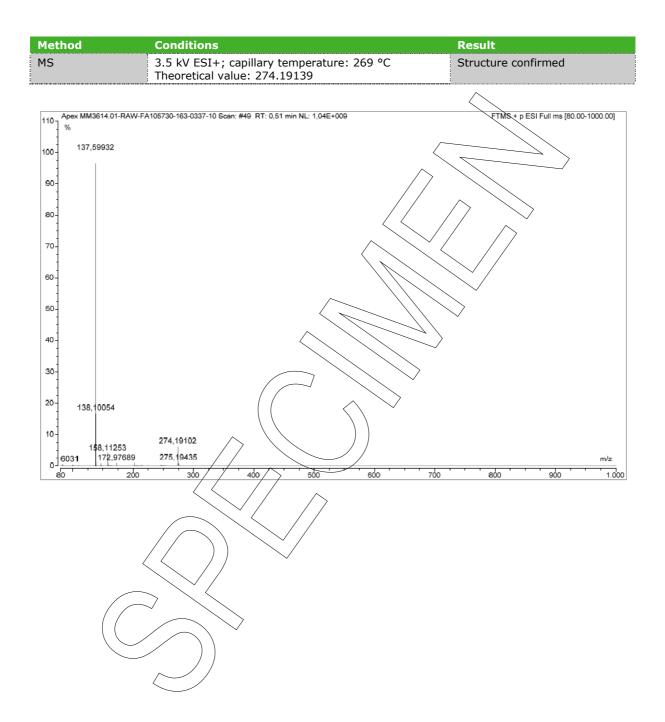


Identity

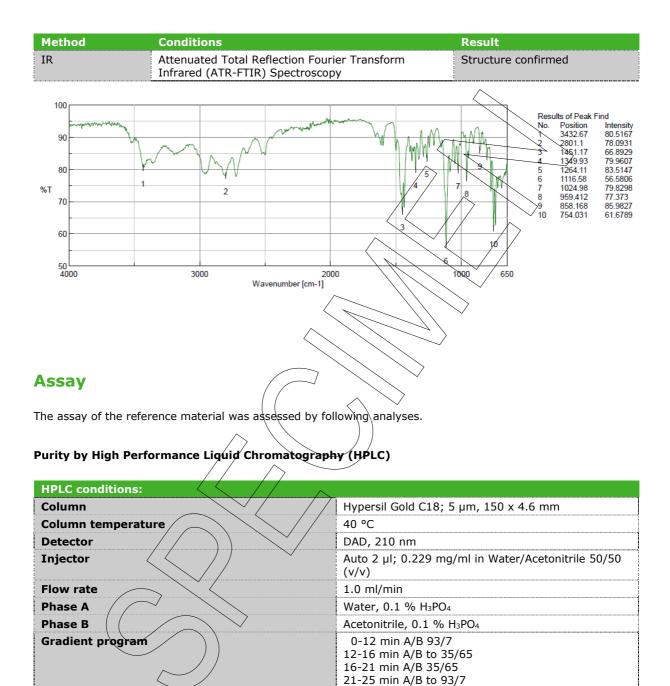
The identity of the reference material was established by following analyses.







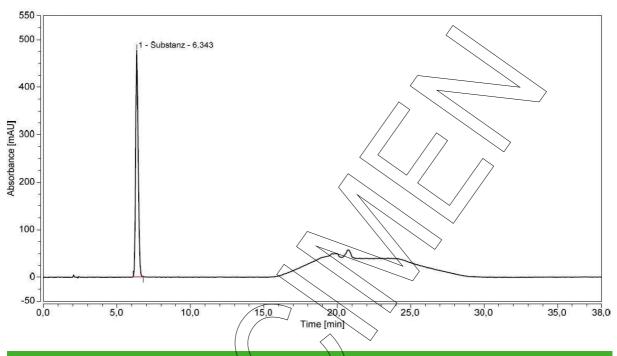




25-38 min A/B 93/7 (v/v)



HPLC chromatogram and peak table



Area percent report - sorted by signal				
Pk #	Retention time	Area	Area %	
1	6.343	95.711	100.00	
Totals		/95.711	100.00	

The content of the analyte was determined as ratio of the peak area of the analyte and the cumulative areas of the purities, added up to 100%. System peaks were ignored in calculation.

Result (n = 6)

100.00 %; SD < 0.01 %



Volatile content

Water content		
Method	Karl Fischer titration	
Result (n = 3)	9.04 %; SD = 0.06 %	

Residual solvents		
Method	¹ H-NMR	
Result (n = 1)	Sum: 0.05 %	
	0.05 % Methanol	

Final result

Assay "as is":

90.91 %

The assay "as is" is assessed by 100% method (mass balance) and is equivalent to the assay based on the not anhydrous and not dried substance respectively.

The calculation of the 100% method follows the formula:

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

Purity (%)

Volatile contents are considered as absolute contributions and purity is considered as relative contribution. Inorganic residues are excluded by additional tests.

Revision table

	~ / /	
Revision	Date	Reason for revision
00	22 Oct 2020	Release of the Certificate of Analysis – initial version

Product warranties for the RM are set out in the terms and conditions of purchase.