

Certificate of Analysis

Reference Material

Product name

(S)-5-(Aminomethyl)-3-(3-fluoro-4-morpholinophenyl) α 2-one (Desacetyllinezolid)

Product code
MM3300.01-0025

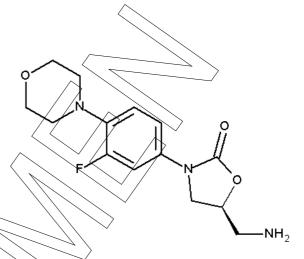
CAS number
168828-90-8

Molecular weight
295.31

Molecular formula

Long-term storage

 $C_{14}H_{18}FN_3O_3$ 2 to 8 °C, dark



Assay "as is'
96.6 %

Date of shipment: 27 Oct 2022

Producer confirms that this reference material (RM) meets the specification detailed on this Certificate of Analysis for **two years** from the date of shipment, provided the substance is stored under the recommended conditions unopened in the original container.

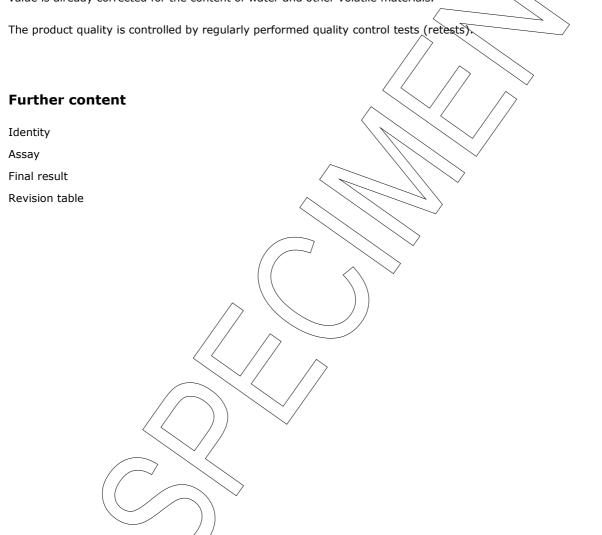
Release by: Date of Release:	0	
Dr. Sabine Schröder Luckenwalde, 07 Oct 2019	Soia	Product Release



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.

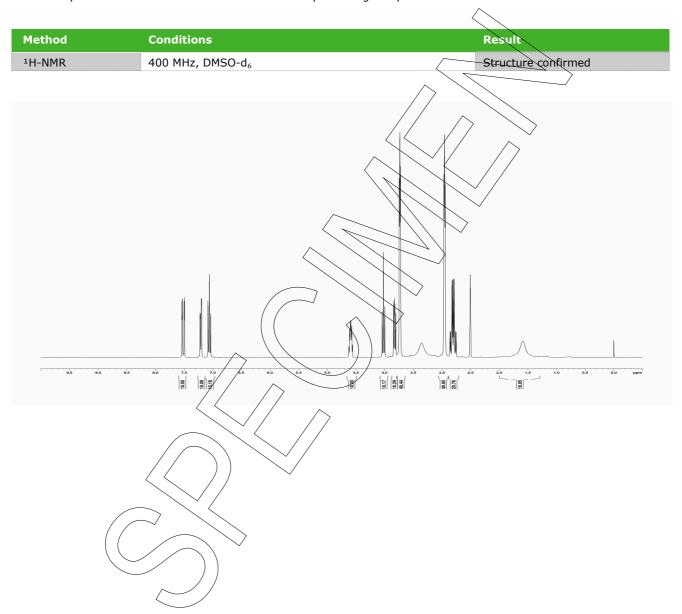


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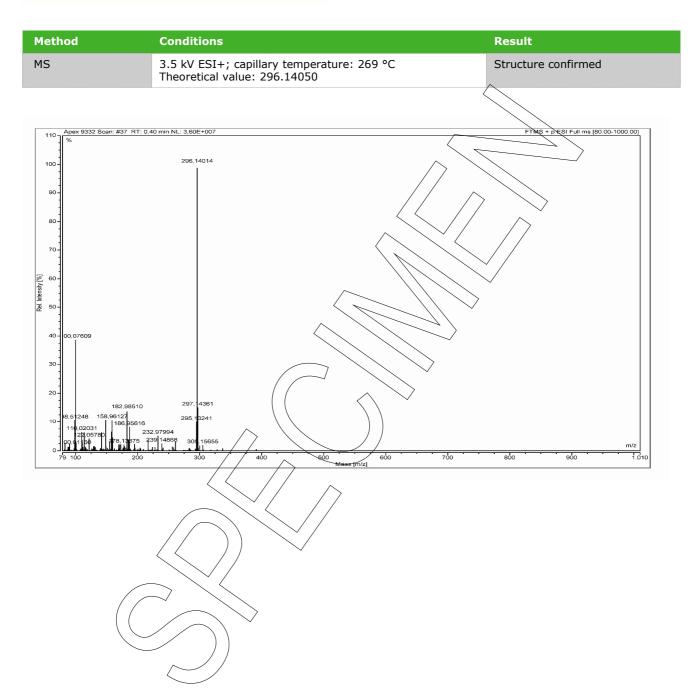


Identity

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

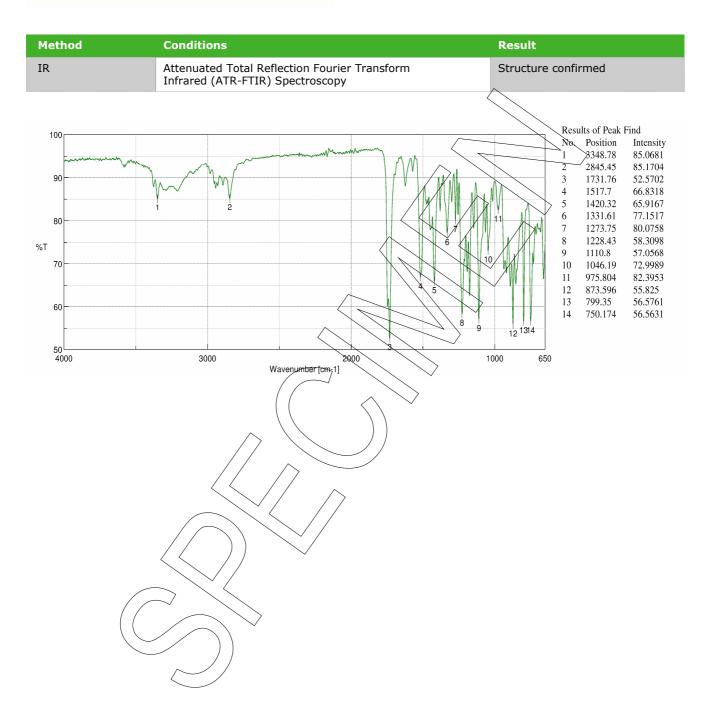






Lot number 1038137







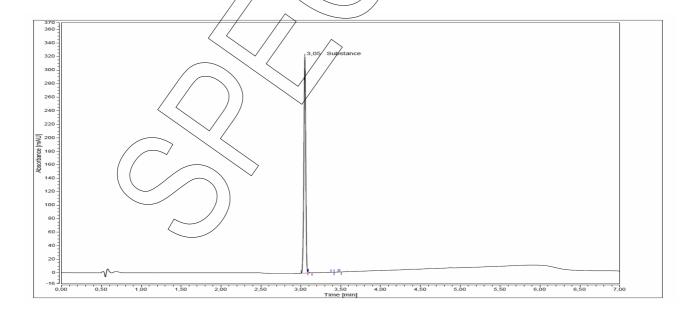
Assay

The assay of the reference material was assessed by following analyses.

Purity by High Performance Liquid Chromatography (HPLC)

HPLC Conditions:	
Column	Kinetex F5; 1.7 μm, 100 x 2.1 mm
Column temperature	40 °C
Detector	DAD, 254 nm
Injector	Auto 2.00 xil; 0.054 mg/ml in Acetonitrile/Water 50/50 (v/v)
Flow rate	0.5/ml/min
Phase A	Water, 0.1 % HCQOH
Phase B	Acetonitrile, 0.1 % HCOOH
Gradient program	0-1 min A/B 100/0
	1-5 min A/B to 5/95
	5-6 min A/B to 100/0
	6-7 min A/B 100/0 (v/v)

HPLC chromatogram and peak table



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Area percent report - sorted by signal			
Pk #	Retention time	Area	Area %
1	3.050	8.7060	99.61
2	3.097	0.0304	0.35
3	3.420	0.0016	0.02
4	3.490	0.0021	0.02
Totals		8.7401	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 = 3) 99.61 %; SD = 0.01 %

Volatile content

Water content		
Method	Kapl Fischer titration	
Result (n = 3)	3.00 %; SD=0.09 %	

Residual solvents

Method

Result (n = 1)

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



Final result

Assay "as is": 96.62 %

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 (%)) *
$$\frac{\text{Purity (% 100 \%)}}{100 \%}$$

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	07 Oct 2019	Release of the Certificate of Analysis - initial version

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

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