



Mikromol™



## Certificate of Analysis

ISO 9001

### Reference Material

#### Product name

Pseudoerythromycin A Hemiketal

#### Product code

MM0132.25

#### CAS number

105900-46-7

#### Molecular weight

733.93

#### Molecular formula

C<sub>37</sub>H<sub>67</sub>NO<sub>13</sub>

#### Lot number

1031650

#### Appearance

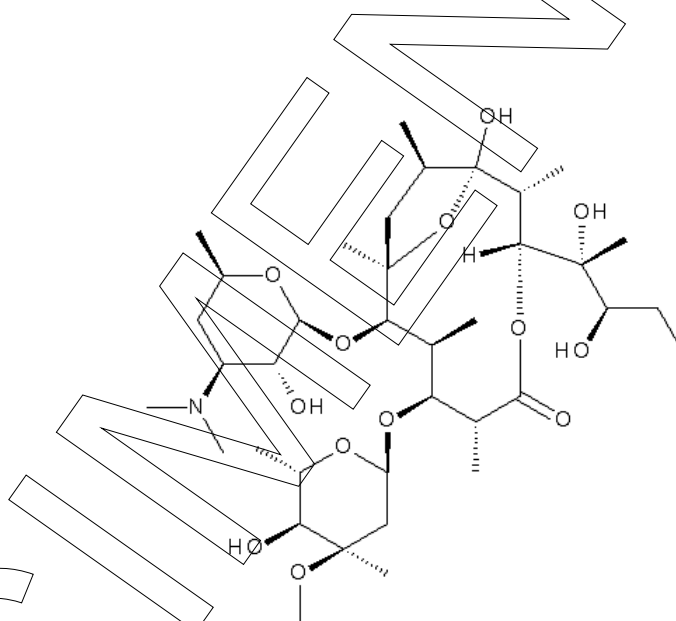
white solid

#### Melting point (DSC)

226 °C

#### Long-term storage

2 to 8 °C, dark



Assay "as is"  
98.0 %

Date of shipment:

13 Sep 2019

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.

<b>Release by:</b>	<b>Date of Release:</b>		Product Release
Dr. Sabine Schröder	Luckenwalde, 12 Sep 2019		



**Mikromol<sup>TM</sup>**

## 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

Purity

Final result

Revision table

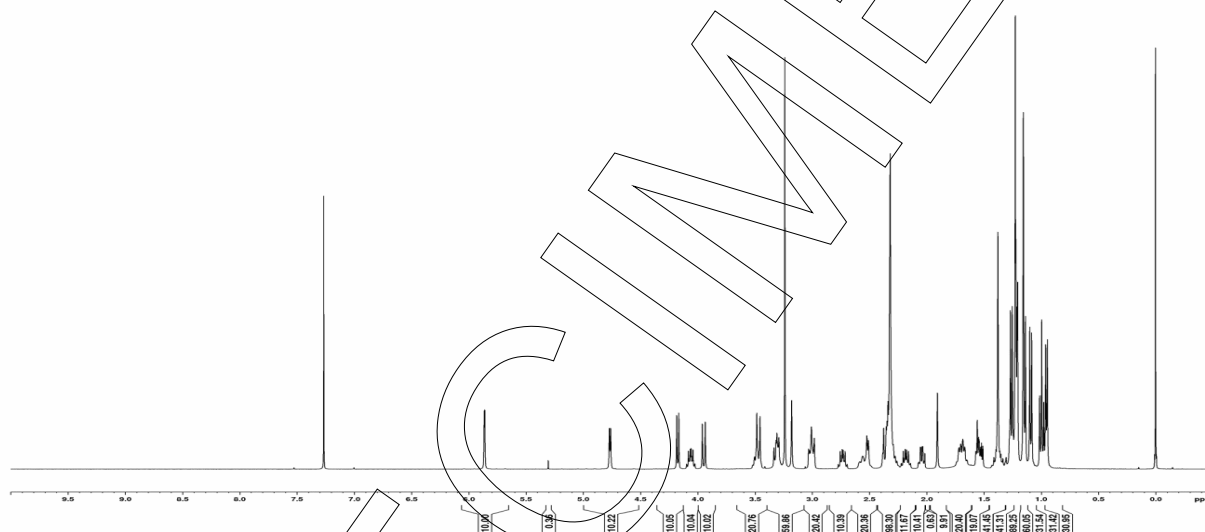
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## Identity

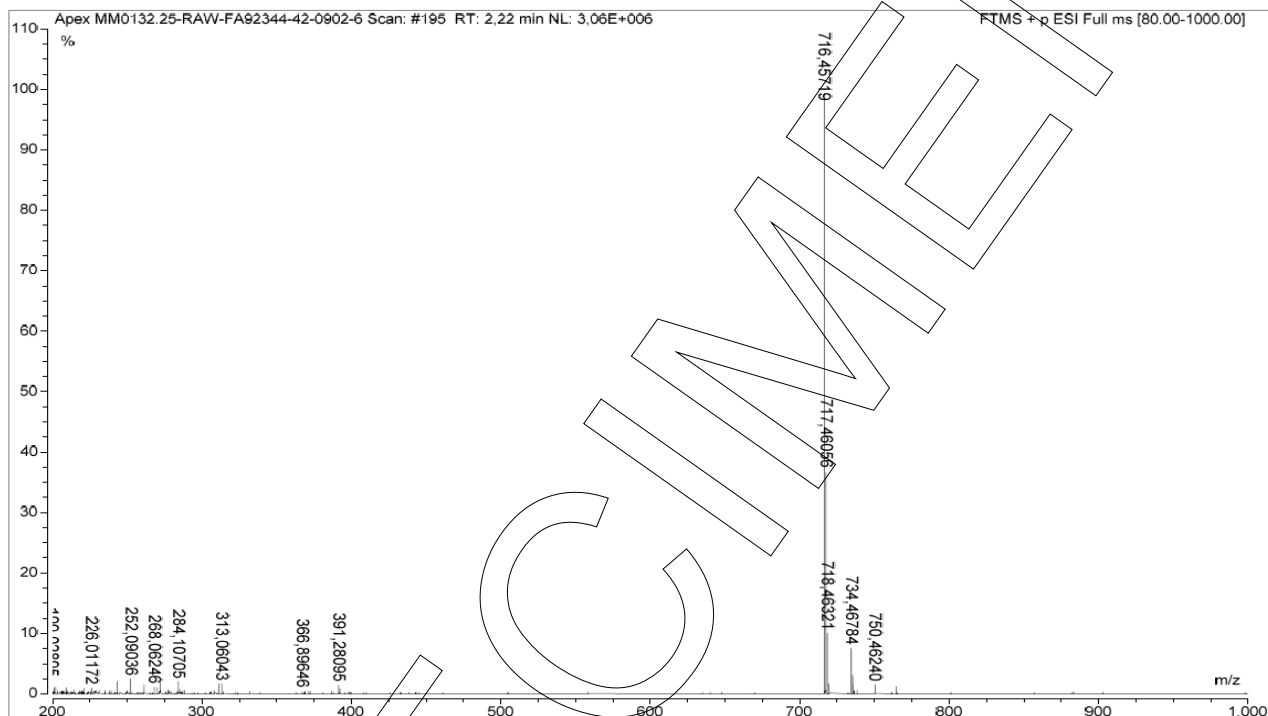
The identity of the reference material was established by following analyses.

Method	Conditions	Result
<sup>1</sup> H-NMR	400 MHz, CDCl <sub>3</sub>	Structure confirmed



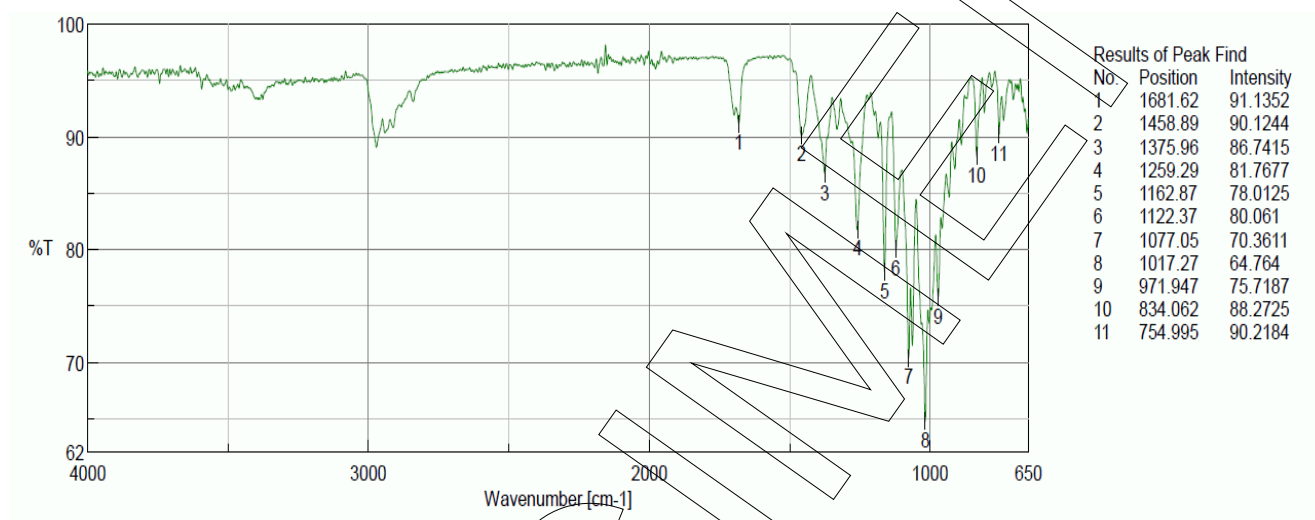


Method	Conditions	Result
MS	3.5 kV ESI+; capillary temperature: 269 °C Theoretical value: 734.46852	Structure confirmed





Method	Conditions	Result
IR	Attenuated Total Reflection Fourier Transform Infrared (ATR-FTIR) Spectroscopy	Structure confirmed





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## Purity

### Volatile content

Water content	
Method	Karl Fischer titration
Result (n = 3)	0.08 %; SD < 0.01 %

Residual solvents	
Method	<sup>1</sup> H-NMR
Result (n = 1)	Sum: 0.33 % 0.21 % Dichloromethane; 0.12 % Acetonitrile

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## Final result

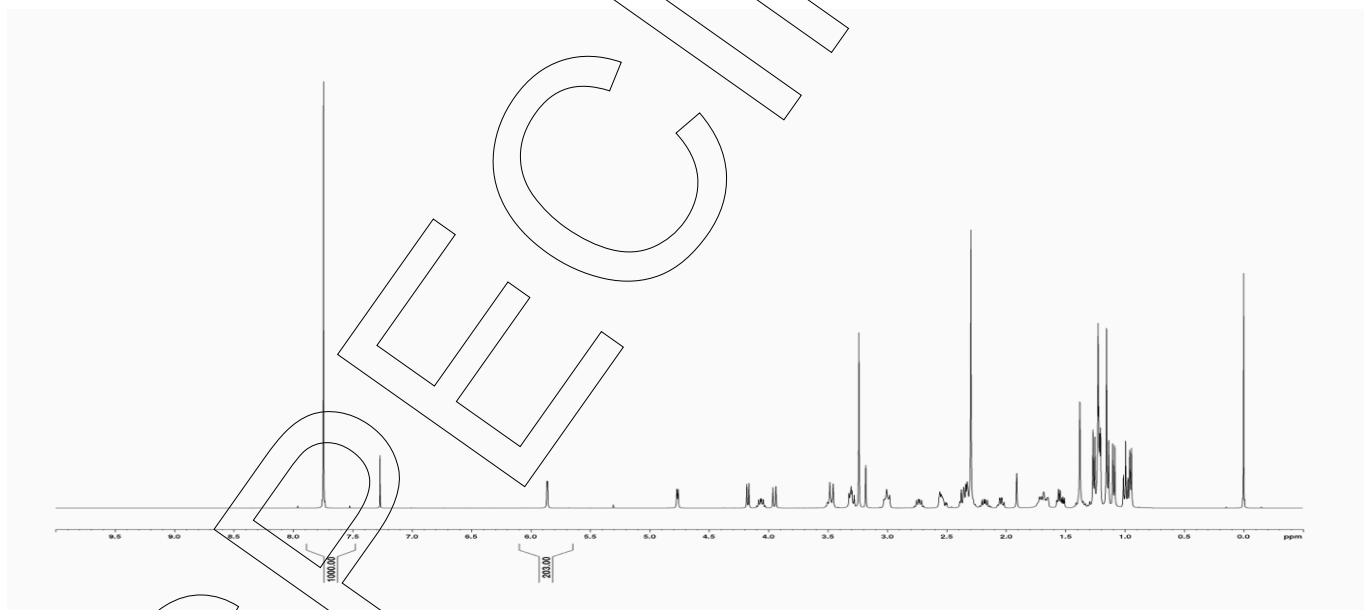
Assay "as is": **98.02 %**

The assay "as is" is assessed by quantitative NMR spectroscopy and is equivalent to the assay based on the not anhydrous and not dried substance respectively.

### Method: Value assigning technique - quantitative NMR spectroscopy

Conditions	400 MHz, CDCl <sub>3</sub>
Internal standard	2,3,5,6-Tetrachloro-1-nitrobenzene (certified reference material), signal 7.5 - 7.9 ppm, 1 H
Result (mass fraction, n = 6)	98.02 %

Quantitative NMR spectrum





**Mikromol<sup>TM</sup>**

## Revision table

Revision	Date	Reason for revision
00	12 Sep 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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