

# Certificate of Analysis



EHRENSTORFER™

## Product Identification

14956000 Metformin Hydrochloride

CA

IUPAC

Formula C<sub>4</sub>H<sub>11</sub>N<sub>5</sub> x HCl

Mol.Weight 165.6




CAS No. 1115-70-4

Expiry Date 18.05.2022

Lot Number 752678

Store at 4 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

Toxicological Data	Physical Data
   R Code S Code LD50 (Rats female/male in mg/kg)	Phase amorphous solid Color colourless Melt.Range Boiling Range (lit.)
<b>Analytical Data</b> Identity: NMR, IR, RT, UV, MS Comment For method information see chromatogram.	
Water Content 0.1 % Determined by Karl-Fischer Titration Det. Purity 99.7 % Tolerance/Uncertainty +/- 1.0 % <p>The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U w hich is U<sub>c</sub>(y)*K, w here K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.</p>	

Certified on 18.05.2018

by D. Schmid

*Schmid D*

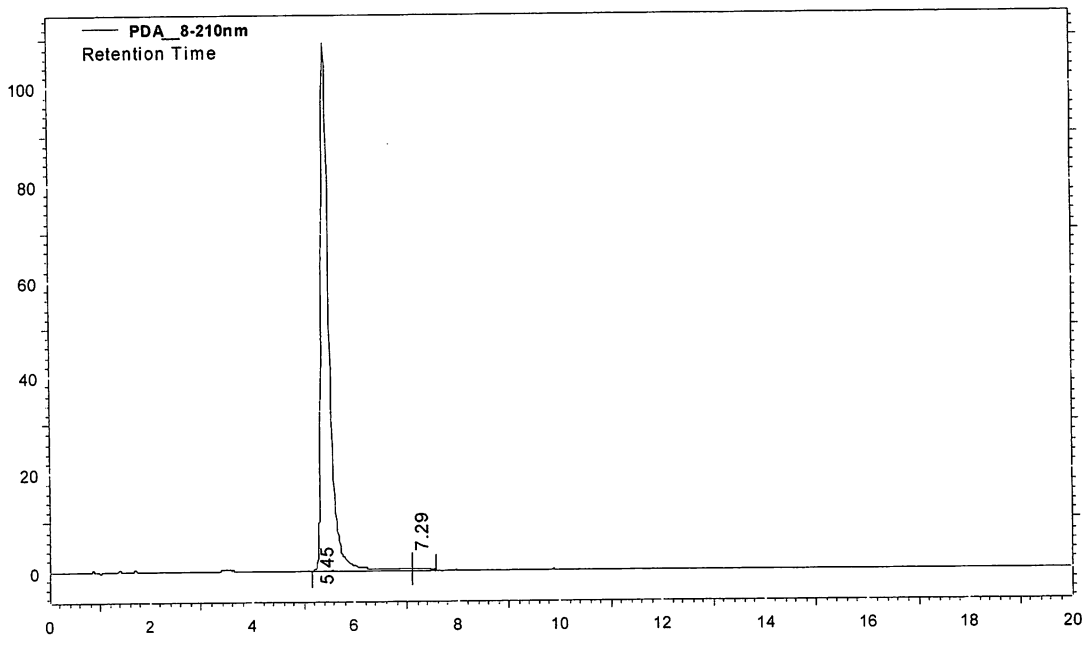
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

LGC Labor GmbH · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany  
Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com  
The warranty for this product is limited to the purchasing price of this product.

18.05.2018, SC

**HPLC Conditions:**

<b>Column:</b>	<b>Conditions:</b>	<b>Detector:</b>	<b>Injector:</b>
RP 60 Select B	1.0 ml/min, 40 °C	DAD	Auto
5 µm, 125 x 4 mm	Water/Acetonitrile 97/3 (v/v);	210 nm	2 µl; 0.029 mg/ml in
	0.1 % H <sub>3</sub> PO <sub>4</sub> , 0.05 % HSA		Water



**Area Percent Report - Sorted by Signal**

<b>Pk #</b>	<b>Retention Time</b>	<b>Area</b>	<b>Area %</b>
1	5.45	1195649	99.88
2	7.29	1489	0.12
Totals		1197138	100.00

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