

Certificate of Analysis



Product Identification

16707000 Quinine hydrochloride
CA Cinchonan-9-ol, 6'-methoxy-, hydrochloride (1:1), (8a,9R)-
IUPAC
Formula C₂₀H₂₄N₂O₂ x HCl
Mol.Weight 360.88
CAS No. 130-89-2

Expiry Date 06.08.2021
Lot Number 174671
Store at 20 °C ±4 °C

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

Toxicological Data



R Code 22-42/43
S Code 22-36/37-45
LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase crystalline solid
Color colourless
Melt.Range 115.2 °C
Vapour pressure NA at °C
Solubility in water NA g/l at °C
Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Inj.-Vol.: 10.00 µl
Flow: 1.0 ml/min
Ret.-Time: 4.90 min.

Method Details:

Eluent A: Acetonitrile:H₂O+0,5% H₃PO₄ 1:9 for 1 min
Eluent B: Acetonitrile 100% for 5 min
Eluent A -> Eluent B: 19 min

Identity: UV, RT, MS

Comment Column: Nucleodur PFP 5 µm 250 x 3 mm
Purity w as determined by chromatographic assay, corrected by water content and/or residue solvents.

Water Content 7.0 % Determined by Karl-Fischer Titration

Det. Purity 87.3 % Tolerance/Uncertainty +/- 2.0 %

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 which is U_c(y)*K, where 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.

Certified on 06.08.2018
by Dr. K. Wörmann

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.

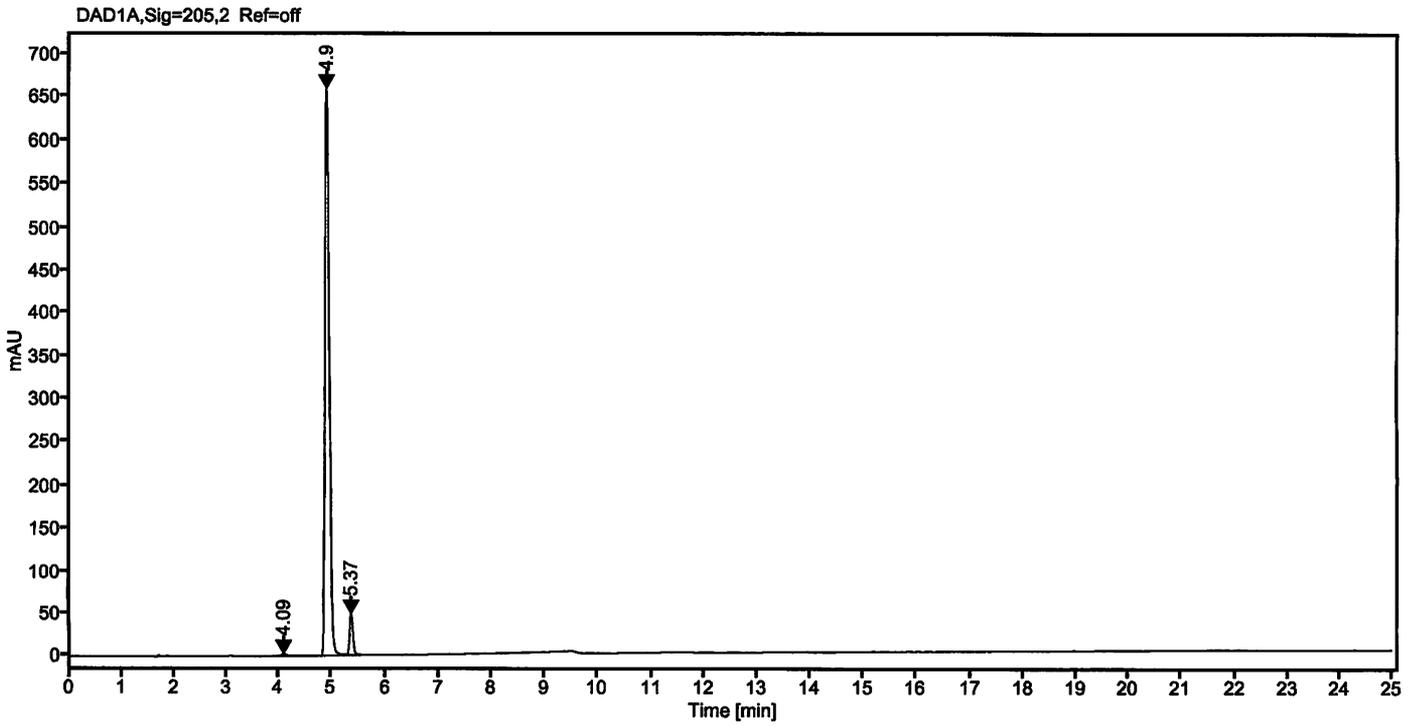
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The warranty for this product is limited to the purchasing price of this product.

Data file: 16707000-05-r002.dx
Sample name: 80802WA 174671
Inj. volume [µl]: 10.0
Acq. method: S2_Gradient_10-100_PK.amx

Instrument: DAD5
Sequence Name: 02082018-PFP
Injection date: 8/2/2018 6:52:46 PM
Location: P3-B2

3.8611

Sample Description: Quinine hydrochloride
Column: Nucleodur PFP 5 µm 250 x 3 mm



Signal: DAD1A, Sig=205,2 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	4.09	15.74082	2.80	0.40
2	4.90	3750.84332	659.55	94.28
3	5.37	211.91967	48.64	5.33
	Sum	3978.50		

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