

Certificate of Analysis




Product Identification

15644200 Nordihydroguaiaretic acid
CA 1,2-Benzenediol, 4,4'-(2,3-dimethyl-1,4-butanediyl)bis-
IUPAC
Formula C₁₈H₂₂O₄
Mol.Weight 302.36
CAS No. 500-38-9

Expiry Date 23.11.2021
Lot Number 738119
Store at 20 °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 crystalline solid Color white Melt.Range 174.4 °C Boiling Range (lit.)

Analytical Data	Method Details:																		
Detection: UHPLC/DAD Column: LUNA Omega C18 1.6 µm 100 x 2.1 mm Inj.-Vol.: 2.00 µl Flow: 0.5 ml/min Ret.-Time: 5.23 min.	Eluent A: WA + 0.5% H ₃ PO ₄ Eluent B: Acetonitrile																		
	<table border="1"><thead><tr><th>Time/min</th><th>A</th><th>B</th></tr></thead><tbody><tr><td>0</td><td>90%</td><td>10%</td></tr><tr><td>0.3</td><td>90%</td><td>10%</td></tr><tr><td>8</td><td>0%</td><td>100%</td></tr><tr><td>9.5</td><td>0%</td><td>100%</td></tr><tr><td>10</td><td>90%</td><td>10%</td></tr></tbody></table>	Time/min	A	B	0	90%	10%	0.3	90%	10%	8	0%	100%	9.5	0%	100%	10	90%	10%
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9.5	0%	100%																	
10	90%	10%																	

Identity: UV, RT, MS, EA, NMR
Comment Purity was determined by chromatographic assay corrected by water and/or residue solvents.

Water Content 0.4 % Determined by Karl-Fischer Titration
Det. Purity 97.4 % 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 $U_c(y) \cdot K$, 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 23.11.2018

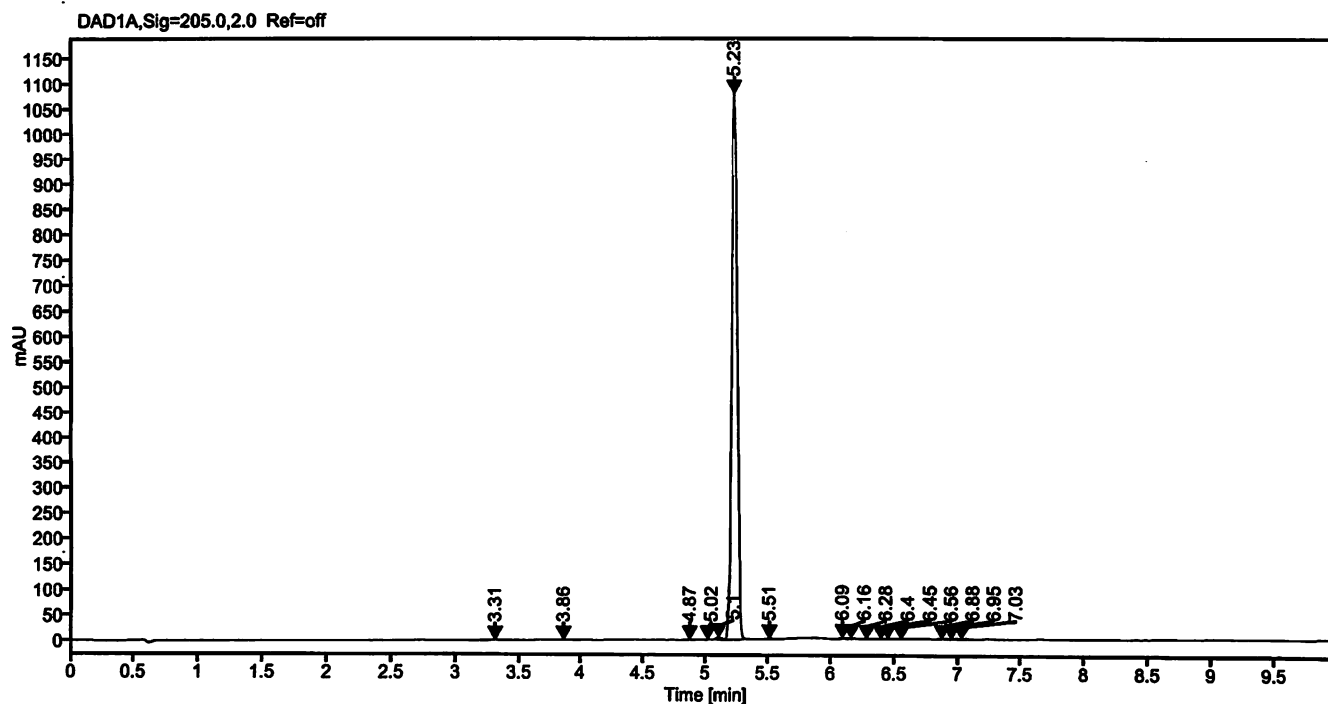
by M. Beck

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.

S.M. 18 *um*

Data file: 15644200-12-r001.dx Instrument: UHPLC 2
Sample name: 81031AL 738119 Sequence Name: 31102018-1
Inj. volume [µl]: 2.0 Injection date: 10/31/2018 6:25:32 PM
Acq. method: Gradient_10-100_P.amx Location: P2-A6
Sample Description Nordihydroguaiaretic acid



Signal: DAD1A, Sig=205.0, 2.0 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	3.31	3.69470	0.82	0.11
2	3.86	2.40544	0.69	0.07
3	4.87	3.57935	1.11	0.11
4	5.02	1.81798	0.73	0.05
5	5.10	12.60038	4.43	0.37
6	5.23	3298.59567	1078.18	97.99
7	5.51	6.41403	1.78	0.19
8	6.09	7.27363	2.00	0.22
9	6.16	6.84247	1.93	0.20
10	6.28	2.63728	0.88	0.08
11	6.40	2.61145	0.87	0.08
12	6.45	2.55520	0.90	0.08
13	6.56	2.03133	0.56	0.06
14	6.88	4.99561	1.39	0.15
15	6.95	4.08015	1.07	0.12
16	7.03	4.09560	0.91	0.12
	Sum	3366.23		

M. Ber