

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

10028130 Acid Blue 3 calcium

CA Ethanaminium,N-[4-[(4-(diethylamino)phenyl)(5-hydroxy-2,4-disulphophenyl)methylene]-2,5-

IUPAC 4-[4,4',-Bis-diethylamino-alpha-hydroxy-benzhydryl]- 6-hydroxy-benzol-1,3-disulfonic acid

Formula C₂₇H₃₁N₂O₇S₂ · 0.5Ca

Mol Weight 579.71

CAS No. 3536-49-0

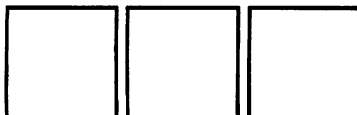
Expiry Date 28.07.2021

Lot Number 737840

Store at 20 °C ±4 °C

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

Toxicological Data



R Code

S Code

LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase crystalline solid

Color green-blueish

Melt Range dec. °C

Vapour pressure N/A at °C

Solubility in water 50 g/l at 20 °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Method Details:

Column:

Inj.-Vol.: 10.00 µl

Flow: 0.5 ml/min

Ret.-Time: 8.30 min.

Identity: MS, EA, UV, RT

Comment Dye content (HPLC) 96.4%

Contains different cations (determined by EA)

CA²⁺ 0.018 m/mNa⁺ 0.06 m/m

Column: Poroshell 120 EC-C18 (2.7µm, 4.6x50mm)

Method Details:

Eluent A: Acetonitrile

Eluent B: WA + 1.7g/L Tetrabutylammoniumhydrogen sulfate + 0.7g/L Na₂HPO₄, pH=3.35

Time [min] Eluent A [%] Eluent B [%] Flow [ml/min]

0	20	80	1
1	20	80	1
9	50	50	1
15	50	50	1
20	20	80	1

Water Content 6.7 %

Determined by Karl-Fischer Titration

Det. Purity 89.7 %

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 06.04.2018

by N. Müller

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.

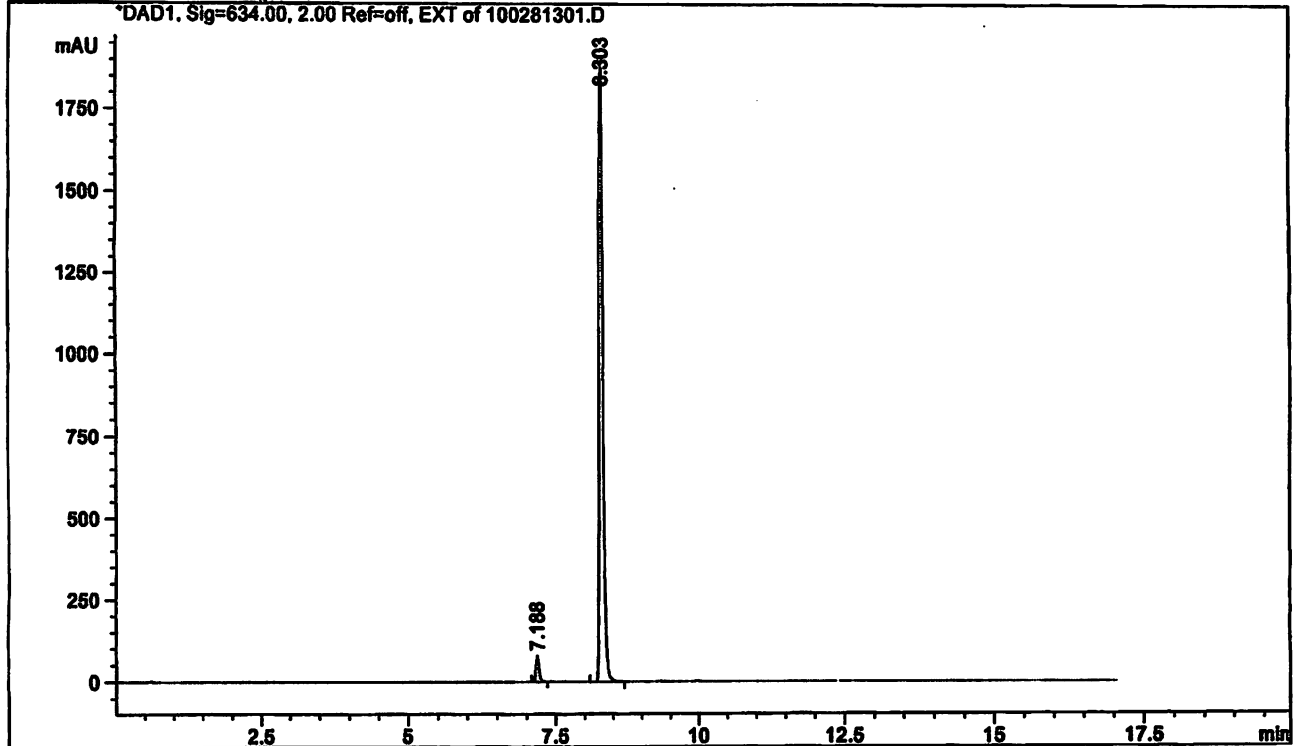
LGC Labor GmbH · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 908080 · Fax +49 821 9080888 · augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

SF0
02.07.15

Acid Blue 3 calcium

Column: Poroshell 120 EC-C18, 2,7 μ m, 4,6 x 50 mm
 Sondereluent: A: AL, B: 1,7 g Tetrabutylammoniumhydroge
 n sulfate + 0.7 g Na₂HPO₄ pro 1L WA, pH = 3.35

=====
 Injection Date : 01.07.2015 12:39:59 Seq. Line : 7
 Sample Name : 50623WA 41128 Location : Vial 44
 Acq. Operator : DAD2_Admin Inj : 1
 Acq. Instrument : DAD2 Inj Volume : 10 μ l
 Method : D:\CHEM32\1\METHODS\GRADIENT_BRILLIANTBLACKBN_C_S2.M
 Last changed : 21.05.2015 10:55:04 by DAD2_Admin
 Gradient for Azodyes, FS



=====
 Area Percent Report
 =====

Sorted By : Retention Time
 Multiplier : 1.0000
 Dilution : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1, Sig=634.00, 2.00 Ref=off, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	7.188	1	BV	299.98792	76.65045	3.5974
2	8.303	1	BV	8039.05566	1885.24084	96.4026

Totals : 8339.04358 1961.89130

=====
 *** End of Report ***

HLLD