

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

13205000 Erythrosin B disodium**CA** Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-Dihydroxy-2',4',5',7'-tetraiodo-, sodium**IUPAC** Iodoeosin, 2',4',5',7'-Tetraiodofluorescein disodium salt**Formula** C₂₀H₆I₄O₅Na₂**Mol.Weight** 879.9**CAS No.** 16423-68-0**Expiry Date** 14.09.2024**Lot Number** 976500**Store at** 20 °C ±4 °C

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

Toxicological Data

**R Code** 22**S Code** 36**LD50** (Rats female/male in mg/kg) N/A

Physical Data

Phase crystalline solid**Color** red**Melt.Range****Vapour pressure** N/A at °C**Solubility in water** N/A g/l at °C**Boiling Range** (lit.)

Analytical Data

Identity: UV, RT, EA, NMR**Comment** Purity was determined by elemental analysis.**Method of detection:** HPLC/DAD**Inj. Vol.:** 50 µl**Column:** Nucleodur C18 Gravity 5µm 150 x 3mm**Eluent A:** Acetonitrile**Eluent B:** Water + KH₂PO₄ (20 mM, pH 5 with H₃PO₄)**Flow:** 1 mL/Min0 -> 1 Min 5 % Acetonitrile : 95% Water + KH₂PO₄1 -> 21 Min 50 % Acetonitrile : 50% Water + KH₂PO₄21 -> 23 Min 5 % Acetonitrile : 95% Water + KH₂PO₄**Water Content** 6.3 % **Determined by** Karl-Fischer Titration**Det. Purity** 85.7 % **Tolerance/Uncertainty** +/- 5.0 %

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 14.09.2018

by M. Beck

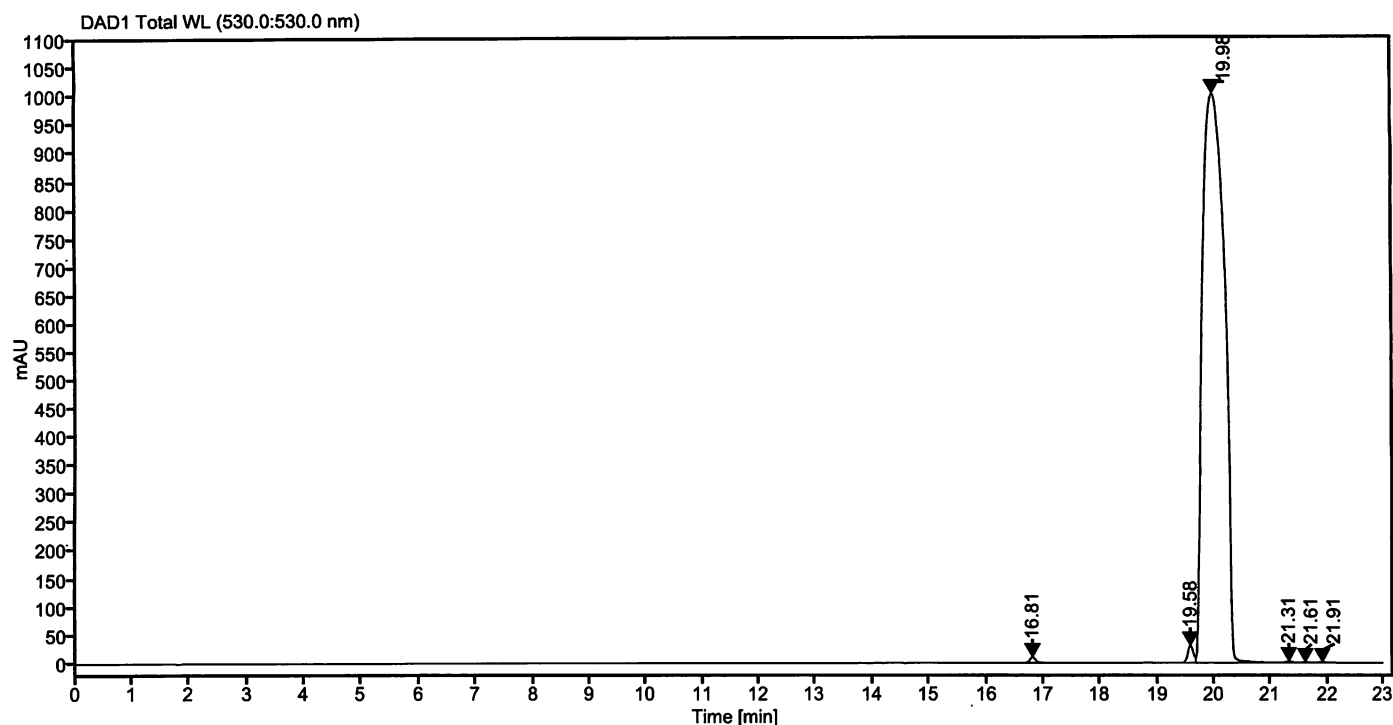
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

Data file: 13205000-03-r001.dx
Sample name: 80829WA 976500
Inj. volume [µl]: 50.0
Acq. method: S2_GRADIENT_ERYTHROSIN_
 BD.amx

Instrument: DAD5
Sequence Name: 29082018-SE
Injection date: 8/29/2018 9:44:53 AM
Location: P2-A1

Sample Description Erythrosin B disodium
 Column: Nucleodur C18 Gravity, 5 µm, 150 x 3 mm
 Eluent B: Acetonitrile
 Eluent D: Water + KH₂PO₄ (20 mM, pH 5 with H₃PO₄)



Signal: DAD1 Total WL (530.0:530.0 nm)

Nr.	RT [min]	Area	Height	Area%
1	16.81	73.63279	10.32	0.27
2	19.58	210.94236	30.69	0.78
3	19.98	26597.61265	1000.80	98.84
4	21.31	16.70844	2.40	0.06
5	21.61	6.09035	0.78	0.02
6	21.91	5.88917	0.78	0.02
	Sum	26910.88		