


Specification



Rhodamine B (C.I. 45170)

A3930

Synonym	Brilliantrose, Rosazein, Safranalin, Tetraethylrhodamin
Solubility (20°C)	34 g/L (H ₂ O)
Formula	C ₂₈ H ₃₁ ClN ₂ O ₃
M	479.02 g/mol
CAS-No.:	81-88-9
HS-No.:	32041300
EC-No.:	201-383-9
Storage:	RT
LGK:	10 - 13
R:	41-52/53
S:	22-26-39-61
	reizend, umweltgefährlich
WGK:	2
Specification	
Assay (photometr.)	min. 90 %
λ_{max.} (50 % EtOH)	550 - 552 nm
E 1 %/1 cm, λ_{max.}	2115 - 2350
pH (0.5 %; H₂O; 20°C)	approx. 2.0
Loss on drying	max. 5 %
UV/VIS spectrum	complies
Literature	
(1) Jung, D.-W. <i>et al.</i> (1998) <i>Anal. Biochem.</i> 263 , 118-120 Detection of Proteins in Polyacrylamide Gels Using Eriochrome Black T and Rhodamine B.	

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Comment

The mixed-dye staining method of proteins in polyacrylamide gels with Eriochrome black T in combination with Rhodamine B can detect as little as 10 ng of BSA within one hour (1) and is more sensitive than Coomassie®-staining. The optimum dye concentration of Eriochrome Black T was determined to be 0.01 %. Protein bands were scanned at 560 nm by densitometer. Rhodamine B was employed at the same concentration (0.01 %). Staining solution was prepared by mixing stock solutions of Eriochrome Black T (0.02 % (w/v)) and Rhodamine B (0.02 % (w/v)) in 40 % methanol/7 % acetic acid in a ratio of 1 : 1 (v/v) just prior to use. Besides sensitivity, another advantage of the mixed-dye staining method over Coomassie® is the stability of the staining pattern after drying (60°C, 30 min; ref. 1).