


Specification

Rhodamine B (C.I. 45170)

A3930

Solubility:	34 g/L (H ₂ O)
Physical Description:	Solid
Product Code:	A3930
Product Name:	Rhodamine B (C.I. 45170)
Specifications:	<p>Assay (photometr.): min. 90 %</p> <p>λ_{max}. (50 % EtOH): 550 - 552 nm</p> <p>E 1 %/1 cm, λ_{max}: 2115 - 2350</p> <p>pH (0.5 %; H₂O; 20°C): approx. 2.0</p> <p>Loss on drying: max. 5 %</p> <p>UV/VIS spectrum: passes test</p>
Hazard pictograms	
WGK:	2
Storage:	RT
Signal Word:	Danger
GHS Symbols:	<p>GHS05</p> <p>GHS07</p>
H Phrases:	<p>H302</p> <p>H318</p> <p>H412</p>
P Phrases:	<p>P273</p> <p>P280</p> <p>P301+P312</p>

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Specification

Rhodamine B (C.I. 45170)

A3930

	P305+P351+P338 P310 P330
Molecular Formula:	C ₂₈ H ₃₁ ClN ₂ O ₃
M:	479.02 g/mol
CAS:	81-88-9
EINECS:	201-383-9
CS:	32041300
Comment	<p>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).</p>
Bibliography	<p>(1)Jung, D.-W. <i>et al.</i> (1998) <i>Anal. Biochem.</i> 263, 118-120Detection of Proteins in Polyacrylamide Gels Using Eriochrome Black T and Rhodamine B.</p>

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