SERVA Electrophoresis

Instruction Manual

Coomassie® Brilliant Blue R 250 Powder Cat. No. 17525

Product description:

General	The “R” in the name Brilliant Blue R refers to a blue dye with a reddish hue.
Application	• Staining of proteins in polyacrylamide and agarose gels[1] • Detection of proteins in solution and on cellulose acetate plates[2,3] • Detection of lipids in TLC[4] • Determination of CMC of detergents[5]
Storage	Store powder dry and dark at +15 °C – +30 °C. If st ored as indicated, shelf life of powder is ca. 3 – 5 years.
Solubility	Maximum solubilities: 70 mg/ml in water, 20 mg/ml in ethylene glycol monomethyl ether (methyl cellosolve), 10 mg/ml in EtOH.

Staining protocol:

Solutions	Fixing solution	10 % glacial acetic acid, 40 % EtOH (10 ml glacial acetic acid/40 ml EtOH/50 ml H_2O)
	Stock solution I	0.2 % Brilliant Blue R in 90 % EtOH (100 mg in 50 ml 90 % EtOH) Solution is stable at RT for several months.
	Stock solution II	20 % Acetic acid
	Destainer I	conforms to fixing solution
	Destainer II	10 % glacial acetic acid, 20 % EtOH

Staining

1. Fix gel for 30 min. in 100 ml fixing solution.
2. Prior to use mix 50 ml stock solution I with 50 ml stock solution II, stain gel in solution for 20 min.

Destaining

1. For a first rapid destain, incubate gel for ca. 0.5 - 5 min. (dependent on gel thickness) in destainer I. Destain gel further as long as needed in destainer II (visual inspection).
2. Rinse destained gel 2x for 5 min. in H_2O dist.

[1]Wilson, C.M., Anal. Biochem., 96, 263 (1979), [2]McNight, G.S., Anal. Biochem., 78, 86 (1977), [3]Fazekas, S., et al., Biochim. Biophys. Acta, 71, 377 (1963), [4]Rosenthal, K.S., et al., Anal. Chem., 55, 1115 (1983). *Coomassie is a tradename of ICI, UK

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