

<b>Description</b>	<b>Tetramethylrhodamine isothiocyanate-conjugated bovine serum albumin, Cohn fraction V</b>	
<b>Product code</b>	BSA/TRITC	
<b>Biological origin</b>	Pooled normal bovine serum	
<b>Physical form</b>	Fluorochrome-coupled bovine serum albumin, fraction V, lyophilized from a solution in phosphate buffered saline (PBS pH 7.2).	
<b>Preservative</b>	No preservative added.	
<b>Identity</b>	Confirmed by immunoelectrophoresis and double radial immunodiffusion (Ouchterlony) using antisera to bovine total serum proteins, to bovine IgA, IgM and albumin	
<b>Purity</b>	Purification according to the method of Cohn (J. Amer. Chem. Soc. <b>68</b> (1946), 459). Not less than 90% as tested in immuno electrophoresis. Tested in a concentration of 20 mg/ml at the level of sensitivity of the applied immunoprecipitating techniques, this product contains traces transferrin and some alpha-proteins.	
<b>Physicochemical characteristics</b>	BSA concentration 11.6 mg/ml. Fluorochrome/BSA molar ratio (F/P) 1.0.	
<b>Fluorescent marker</b>	Tetramethylrhodamine isothiocyanate isomer R. It has an orange-red fluorescence. Excitation: 554 nm, emission: 573 nm. To avoid nonspecific background staining, specially synthesized and exceptionally pure crystalline isomer R has been used instead of the usual racemic mixture. Although its fluorescence efficiency is less than of FITC, TRITC conjugates have the advantage of significantly less photo bleaching. This facilitates their use in quantitative cell-counting procedures.	
<b>Conjugation procedure</b>	A proprietary technique for the binding to TRITC is used, followed by several purification steps to remove free reactants and protein aggregates. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life.	
<b>Intended use</b>	As an efficient counterstain for cell and tissue substrates with immunoconjugates with a label contrasting with the orange-red fluorescence of BSA/TRITC. The purpose of counterstaining is to enhance the optical contrast of the immunospecific staining against a counterstained background.	
<b>Handling</b>	The lyophilized conjugate is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. It is reconstituted by adding 1 ml sterile distilled water. Spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the immunoconjugate.	
<b>Packing</b>	Vial with 1ml lyophilized conjugate.	
<b>Storage / shelf life</b>	Lyophilized at +4° C	at least 10 years
	reconstituted at or below -20° C	3-5 years
	reconstituted at +4° C	7 days
<b>Caution</b>	This product should be handled only by qualified persons and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> laboratory research purposes only.	

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