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PRODUCT SPECIFICATION

Product No.	TR-01
Product description:	Thioredoxin reductase from <i>E. coli</i>
Lot No.	22
Specifications:	<p>One ampoule contains a total of 0.35 mg of <i>E. coli</i> thioredoxin reductase 1 (EC 1.6.4.5) better than 90% pure. The enzyme is in 50 percent glycerol- 50 mM Tris-Cl, pH 7.5 – 1 mM EDTA with the volume of 80 µl. On SDS-gel electrophoresis enzyme has subunits of 35 kDa.</p> <p>The solution contains 131 µM thioredoxin reductase or 4.38 mg/ml.</p> <p>Use: To make a working stock solution dilute 6.2 fold fold to 0.7 mg/ml in 50 mM Tris-Cl, pH 7.5-1 mM EDTA. This is a 10 µM solution. Store frozen.</p> <p>At pH 7.5 in the presence of 5 µM <i>E. coli</i> thioredoxin (product TRX-01), 0.1 mM NADPH and 0.01 µM thioredoxin reductase (product TR-01) will reduce disulfides in 100 µM insulin. Test at A₃₄₀ nm should give a change of 0.050 per min.</p>
References:	Holmgren, A. (1984) Methods Enzymol, 107, 295-300.
Storage:	Keep at +4°C
Examples of use:	
NOTE!	The enzyme is thermostable up to +65°C and shipped in 50 % glycerol where it is stable. Keep in dark conditions. Store in -20 C or lower temperature.