

Product datasheet for **RA104GAL**

Biotin (beta-Gal conjugated)

Product data:

Product Type:	Native Proteins
Description:	Biotin (beta-Gal conjugated) protein, 1 mg
Purity:	This product was prepared from electrophoretically pure Beta Galactosidase and Biotin.
Buffer:	State: Liquid (sterile filtered) IgG fraction. Buffer System: 0.05M Potassium Phosphate, 0.001M Magnesium Chloride, 0.1M β -mercaptoethanol; pH 7.8 without preservatives. Label: Beta Galactosidase (E.coli)
Preparation:	Liquid (sterile filtered) IgG fraction.
Applications:	Suitable for Immunoblotting (Western: 1/500-1/2,500 or Dot blot), ELISA (1/8,000-1/32,000) and Immunohistochemistry (1/200-1/1,000) as well as other beta galactosidase-avidin/biotin based enzymatic assays. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Beta Galactosidase (E.coli) and anti-Biotin. This product has been assayed against 1.0 ug of Streptavidin in a standard capture ELISA using pNPP p-nitrophenyl phosphate code as a substrate for 30 minutes at room temperature. A working dilution of 1/1,000 to 1/3,000 is suggested for this product.
Protein Description:	Biotin Conjugated Beta Galactosidase.
Storage:	Store vial at 2-8° C before opening. DO NOT FREEZE! This product is stable at 2-8° C as an undiluted liquid. Dilute only prior to immediate use. Freezing Beta Galactosidase conjugates will result in a substantial loss of enzymatic activity.
Stability:	Shelf life: one year from despatch.
Summary:	Biotin is a water soluble vitamin, generally classified as a B complex vitamin, also called vitamin B4. After the initial discovery of biotin, nearly forty years of research were required to establish it as a vitamin. Biotin is required by all organisms but can only be synthesized by bacteria, yeasts, molds, algae, and some plant species. Biotin is required as prosthetic group of enzymes involved in incorporation of carbon dioxide into organic compounds. Biotin has a MW of 244 Da.



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