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Product Datasheet

Alanine Aminotransferase (ALT/GPT) Activity Colorimetric Assay Kit BYT-ORB1173221

Article Name	Alanine Aminotransferase (ALT/GPT) Activity Colorimetric Assay Kit
Biozol Catalog Number	BYT-ORB1173221
Supplier Catalog Number	orb1173221
Alternative Catalog Number	BYT-ORB1173221-96
Manufacturer	Biorbyt
Category	Kits/Assays
Product Description	The kit provides a method for detecting ALT/GPT activity in biological samples including tissues, cell cultures, serum, and bacteria. ALT catalyzes the production of glutamic acid and pyruvate, which then reacts with 2,4-dinitrophenylhydrazine to for...
Application Notes	Application Notes: The kit provides a simple method for detecting ALT/GPT activity in a variety of biological samples such as animal tissues, plant tissues, cell culture: adherent or suspension cells, serum, bacterial. In the assay, ALT catalyzes the transamination reaction of alpha-ketoglutarate and alanine at 37C and pH7.4 to produce glutamic acid and pyruvate, pyruvate can react with 2,4-dinitrophenylhydrazine to form Pyruvate phenylhydrazone, which appears brownish red under alkaline conditions and has a characteristic absorption peak at 505 nm. The rate of pyruvate phenylhydrazone increase at 505 nm can reflect ALT/GPT activity