

# Product Information



## Insulinase Inhibitor Cocktail

Cat No: D05011 - 500  $\mu$ l

### General Data

**Shipping:** dry ice



**Application(s):** This protocol may be used to measure insulin in plasma or serum sample where hemolysis may occur.

To do so, blood samples are collected in tubes containing EDTA. The samples are centrifuged at 1600 g for 20 minutes. Plasmas are collected and kept at -20 °C

### Product Overview

The main analytical pitfalls in insulin measurement in serum are related to (a) hemolysis, (b) circulating anti-insulin autoantibodies, and, for the past few years, (c) the reactivity (or lack of reactivity) of rapid- or long-acting pharmacological insulin analogs in sera (1). Hemolyzed samples contain an insulin-degrading enzyme and should not be analyzed unless they can be handled at 4 °C within 2 to 3 h or an insulinase inhibitor cocktail has been added in the blood collection tube to prevent insulin degradation.

This Inhibitor cocktail has been developed and validated with Bertin Bioreagent Insulin (mouse, rat) EIA kit #A05105.

### Scientific Literature

Chevenne D., Letailleur A., Trivin F., and Porquet D., Effect of Hemolysis on the Concentration of Insulin in Serum Determined by RIA and IRMA, Clin. Chem., 44: 354 - 356, Feb 1998

Sapin R., Insulin Immunoassays: Fast Approaching 50 Years of Existence and Still Calling for Standardization, Clinical Chemistry 53: 810-812, 2007

FP/24/24

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