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Beta Glucuronidase Protocol

Scope: Beta Glucuronidase from Abalone is the superior reagent for hydrolysis of glucuronides for the following drugs of abuse-opiates, benzos and THC.

I. Preparation of Solution:

ß-Glucuronidase, from abalone, 5,000 Fishman units/mL from lyophilized powder:

Dissolve 100,000 Fishman units lyophilized powder with 20 mL 100 mM acetate buffer (pH 5.0). Storage: 0°C in plastic. Stability: Several days; Prepare daily for best results.

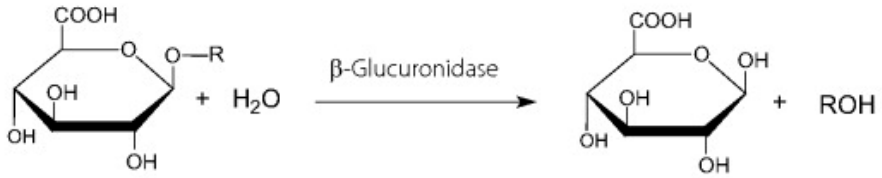
ß-Glucuronidase, from abalone, 5,000 Fishman units/mL from solution:

Dissolve 1ml of ß-Glucuronidase solution containing 100,000 Fishman units lyophilized with 20 mL 100 mM acetate buffer (pH 5.0). Storage: 0°C in plastic. Stability: Several days; Prepare daily for best results.

II. Prepare sample - Enzymatic Hydrolysis of Beta Glucuronides:

To 2 mL of urine add internal standard(s) and 1 mL of ß-glucuronidase solution.
The ß-glucuronidase solution prepared above contains: 5,000 Fishman units/mL in 100 mM acetate buffer (pH=5.0).
Mix/vortex.
Hydrolyse for 3 hours at 37°C.

General β-Glucuronidase Hydrolysis Reaction



β-Glucuronidase Hydrolysis Reaction for Morphine 3 -β-glucuronide