

## Product Information

**Potassium acetate buffer solution**

100 mM, pH 5.0, 0.2 µm filtered

Catalog Number **SAE0157**

Storage Temperature 2–8 °C

CAS Number 127-08-2

**Product Description**

Potassium acetate buffer solution is a ready-to-use urine diluent compatible with β-glucuronidase drug hydrolysis procedures. Formulated at 100 mM, pH 5.0, the solution is intended for use with limpet β-glucuronidase enzymes, particularly the highly purified recombinant limpet Sigma-Aldrich products SRE0093 and SRE0095 (sold separately). The buffer is free of phosphate, detergents, and carbohydrates that may interfere with analysis methods.

The limpet β-glucuronidase enzyme has a broad substrate specificity and is a preferred enzyme for urine drug hydrolysis.<sup>1,2</sup>

**Example Workflow**

Combine:

100 µL Sample for analysis

100 µL Potassium acetate buffer solution

X\* µL limpet β-glucuronidase (Sigma-Aldrich products SRE0093 or SRE0095)

Cover and incubate for 30 min at 65 °C.

\*Amount of recommended enzyme varies depending on drugs analyzed and expected recoveries.

**Precautions and Disclaimer**

This product is for R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**

Store the product at 2–8 °C. When stored unopened at 2–8 °C, the buffer is stable for at least two years.

**References**

1. Combie, J., *et al.*, *Clin. Chem.*, **28(1)**, 83-86 (1982).
2. Combie, J., *et al.*, *Res. Commun. Chem. Pathol. Pharmacol.*, **35(1)**, 27-41 (1982).

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