

TECHNICAL DATA SHEET PRODUCT: B-One®

B-One® ROOM TEMP ß-Gluc for high-throughput analysis

Product Code:

B-One-10mL

B-One-50mL

B-One-100mL

B-One-250mL

PRODUCT DESCRIPTION

In our spirit to make your lab workflow efficient, we want to save you sample prep steps with our ready-to-use **B-One®**, an enhanced **3rd generation** recombinant β -glucuronidase delivered in an "**All-in-One**" formula stabilized in its reaction buffer.

B-One® is specially formulated to provide a faster setup. The use of **B-One**® reduces pipetting leading to fewer manual steps to decrease sample-to-sample variability while maximizing reproducible results.

The **B-One®** "All-in-One" formula has fewer components with no additional supplemental buffering needed. In fact, it is a one-step addition to the hydrolysis reaction.

B-One® is stable at room temperature for up to 3 months making it suitable for high-throughput laboratories that use automated liquid handling instruments.

Simply, we mixed our enhanced recombinant β -glucuronidase with its own customized buffer to obtain an "All-in-One" formula that effectively hydrolyzes glucuronides as fast as instant to 15 minutes at room temperature, while ensuring an appropriate enzymatic pH in your reaction.

B-One® provides the most efficient hydrolytic activity for the broadest-spectrum of conjugated analytes, with a superior ability to cleave the

glucuronides of codeine, dihydrocodeine, and other "hard-to-cleave" drug conjugates.

Its capacity to quickly hydrolyze glucuronides, without a heating step coupled with its time-saving "All-In-One" formula feature, allows toxicology laboratories to eliminate bottlenecks in sample preparation by enabling automated hydrolysis and same-day results.

B-One® achieves reliable results for high-throughput clinical, forensic, workplace drug testing and other kinds of laboratories.

The **B-One®** highly purified formula is free from secondary enzymes and small contaminant molecules thus eliminating the possibility of interferences and unwanted conversions.

Just simply add ISDs and **B-One**® to the urine samples. Remember, **B-One**® it's an "All-In-One" formula.

PRODUCT OVERVIEW

Product Form: Liquid.

Temperature: Room Temperature (19-22°C).

Purity: \geq 98% of β -Glucuronidase.

Storage/Stability: Store at 2-8°C for up to 18 months or at RT (19-22°C) for up to 3 months (opened or unopened, and under sterile conditions).

Glucuronidase activity: ≥12,000 PS-U/mL.

PS-U Definition: One Product Specific Unit (PS-U) of **B-One**[®] will liberate 1.0 μg of phenolphthalein from phenolphthalein glucuronide in 5 minutes at pH 6.8 and 25°C (Recommended product working conditions).



IMPORTANT NOTES

- Make sure to gently mix **B-One**[®] before using it.
- B-One® can be diluted as a mastermix and stored in the fridge (2-8°C) for up to 2 weeks. Just consider the ISTD stability and whether it can be stored in the fridge or not when not in use.
- B-One® retains full activity up to 5% DMSO in the final mix.
- B-One® is active from 0-20% MeOH. Generally, it's important to have about 5-15% of organic content in the hydrolysis mix for optimal performance and to minimize the loss of nonpolar analytes (e.g., THC). If the final MeOH content in the reaction is above 20% then there may be an impact on its activity.
- The features of B-One® results in less waste because we want you to use every drop. Also, this makes it great for automation. No need to toss any unused enzymes at the end of the day.
- Suggested protocols can be found in the provided B-One® Quick Start Guide. The protocols are optimized to cleave conjugated glucuronide metabolites in different classes including those that are difficult to hydrolyze.
- Alternate protocols for different applications can be found in the B-One® Application Notes at kurabiotech.com/applications.
- If additional questions and concerns come up, please contact a specialist at help@kurabiotech.com.

REFERENCES

- Nicholas Chestara & Jack Andrews. Presentation Load and Go. Webinar 2020.
- José L. Callejas, et al. Poster Evaluation of a New Optimized β-Glucuronidase for High Throughput Laboratories. SOFT 2019. Kura Biotech.
- Kyle Lund, et al. Qua-alluding to the past: a case of methaqualone analog ingestion. J. of Analytical Toxicology. 2021.
- Gary M. Reisfield, Scott A. Teitelbaum, and Joseph T. Jones. Poppy Seed Consumption May Be Associated with Codeine-Only Urine Drug Test Results. J. of Analytical Toxicology. 2022.

PRECAUTIONS AND DISCLAIMER

This document is for R&D use only, not for use in diagnostic procedures. Please consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

CONTACT AND SUPPORT

For technical support or to ask questions, suggest protocol or product enhancements, or report new applications, please contact us at www.kurabiotech.com/contact or email us at help@kurabiotech.com/contact or email

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U.S. Patent Nos. 20180067116 and 202117324067 are still pending. United Kingdom Patent Nos.GB2553142 patent are granted.

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