

BGTurbo®

ROOM TEMPERATURE-STABLE β-GLUCURONIDASE

Just leave it on the bench!

BGTurbo® makes it simpler for you. It is stable at room temperature for 14 days.

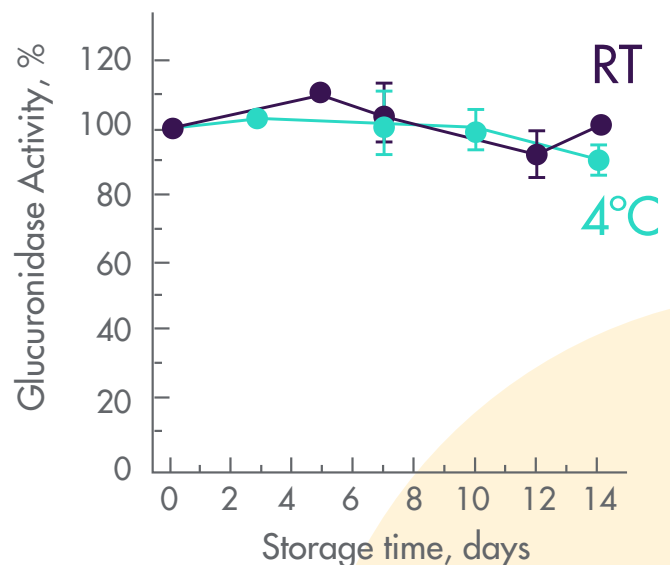
Stable enzymes mean you can focus your attention on what really matters, the sample!

No worries about your reagents activity or storage.

Stop throwing money away on unused reagents.

Prepare a mastermix on Monday, keep what's left on Friday, and use what is left the following week.

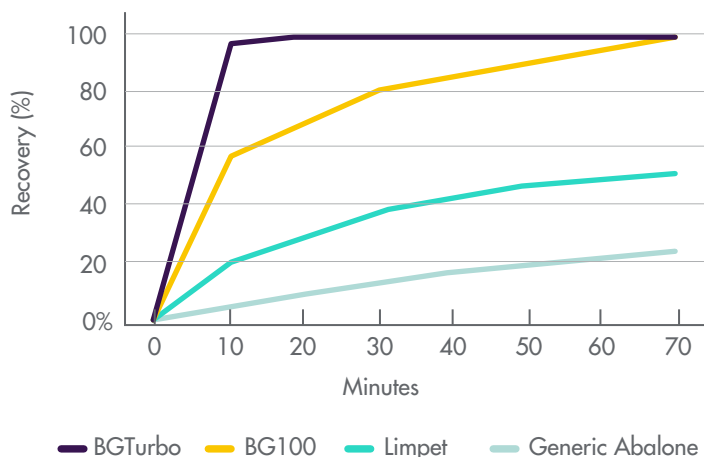
BGTurbo® stability at room temperature



Enzymatic activity measurement under room temperature conditions (20°C) for 14 days, Internal Testing in Kura Biotech Laboratories, Puerto Varas, Chile.

CODEINE RECOVERY BENCHMARK

Low analyte concentration
(Codeine-6β-Glucuronide 500 ng/mL)



Comparative study of four different β-Glucuronidase in Codeine hydrolysis, (2016) Kura Biotech.

BGTurbo® shows multiple fold higher activity for hard-to-cleave analytes than other recombinant enzymes across a wide range of drug concentrations.

BGTurbo®

We have carefully developed BGTurbo® using extensive protein modeling and wet-lab screening to create a massively optimized β -glucuronidase that not only provides one of the fastest hydrolysis, but also preserves specimen and peak integrity by eliminating unwanted conversion and minimizing background noise.

Recombinant, high-efficiency BGTurbo® maximizes LCMS production capacity and return-on-investment, is compatible with full-line automation*, and is both exceptionally pure and extremely robust.

*90%+ recovery of all analytes as shown in J. F. Emory et al. "Complete integration of a fully automated flash hydrolysis protocol of glucuronides in urine with LC-MS/MS quantification" (2018)

BGTurbo® Benefits

- High activity, low protein concentration, and ultra-pure enzyme preparation, for D&S methods without column deterioration or interfering peaks in your chromatogram.
- Over 85% hydrolysis of all conjugated analytes in just 10 minutes, using mild conditions to preserve labile analytes.
- Compatible with high throughput laboratories using automated sample preparation platforms.

BGTurbo® Specifications

Product Form: Solution

Temperature Range: 20 - 55°C

pH Range: 6.5 - 7.2

Specific activity: $\geq 200,000$ U/mL

Purity: $> 98\%$ β -Glucuronidase

Storage/Stability: Guaranteed 18 months at 2 - 8°C; 14 days at room temperature (19 - 22°C).

TYPE OF ANALYTE (> 85% RECOVERY) AT 55°C

BGTurbo®

| | | |
|------------------------|---|---------|
| Opiates / Opioids | ✓ | 10 min |
| Benzodiazepines | ✓ | instant |
| TCAs (N+ glucuronides) | ✓ | instant |
| Cannabinoids | ✓ | instant |
| Synthetic Cannabinoids | ✓ | 10 min |
| TDM | ✓ | 10 min |

**WE DON'T
BELIEVE DRUG
TESTING IS
EVER ROUTINE**



REQUEST A FREE SAMPLE

EMAIL US AT: SALES@KURABIOTECH.COM
(800) 332-1448

