



# ABALONASE™ and ABALONASE™+ PURIFIED BETA-GLUCURONIDASE FORMULA CLEAN, RAPID AND RELIABLE

## Abalonase™

Purified Beta-glucuronidase formula that has been designed to quickly hydrolyze conjugated drug metabolites in human samples within minutes.

Part Number	Vol. (mL)	Activity (units)
ASBETA-GLUC-10	10	≥50,000 units/mL
ASBETA-GLUC-25	25	≥50,000 units/mL
ASBETA-GLUC-50	50	≥50,000 units/mL
ASBETA-GLUC-100	100	≥50,000 units/mL

Form: Clear Aqueous Solution / Sulfatase Activity: None /  
Storage: +4°C to +8°C

## Abalonase™ +

Designed for deconjugation of both glucuronidated and sulfated metabolites. The formula is enriched with 4 arylsulfatases making it ideal for the hydrolysis of steroid metabolites.

Part Number	Vol. (mL)	Activity (units)
ASFBETA-GLUC-10	10	≥50,000 units/mL
ASFBETA-GLUC-25	25	≥50,000 units/mL
ASFBETA-GLUC-50	50	≥50,000 units/mL
ASFBETA-GLUC-100	100	≥50,000 units/mL

Form: Clear Aqueous Solution / Sulfatase Activity: > 400 U/mL /  
Storage: +4°C to +8°C



Shown from left to right: Abalonase™ purified Beta-glucuronidase formula, Selectrazyme® and Red Abalone Beta-Glucuronidase enzyme from an alternate supplier.

## Rapid Hydrolysis Buffer included in every order.

Every Abalonase™ and Abalonase™+ purified Beta-glucuronidase formula comes with a Rapid Hydrolysis Buffer to be used at your convenience. Through its usage, both purified Beta-glucuronidase formulas will achieve their maximum performance and it will significantly reduce sample preparation times and use of alternate reagents in addition to minimizing buffer preparation errors.



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Technology developed by Ango

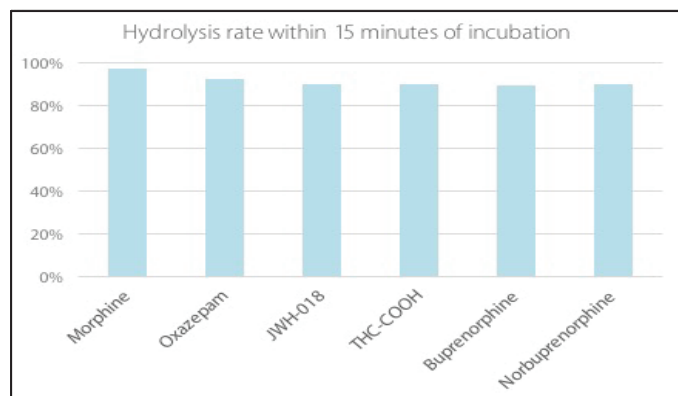
## Hydrolysis Results

This purified beta-glucuronidase provides half the activity units with the same conversion rate as a traditional abalone-derived enzyme. Conversion of Morphine-6-Glucuronide and Codeine-6-Glucuronide, crucial metabolites that are typically difficult to hydrolyze, is achieved in a reasonable time frame without addition of exorbitant amounts of enzyme.

### Morphine-6-Glucuronide and Codeine-6-Glucuronide Conversion Rates(%)

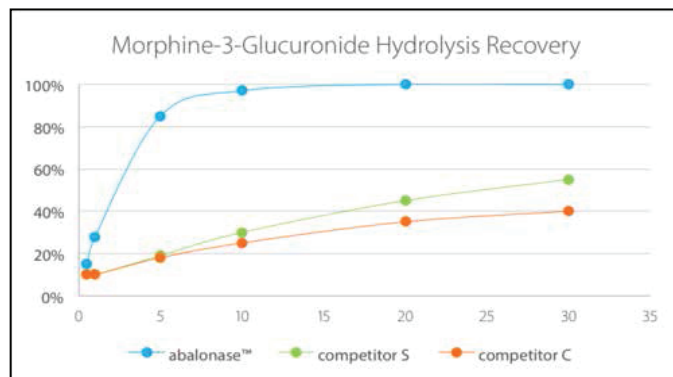
Enzyme Source	Units of Activity		Morphine-6-G		Codeine-6-G	
			Incubation Time		Incubation Time	
			60 min.	90 min.	60 min.	90 min.
<b>Abalonase™</b>	<b>2,500</b>	<b>50 µL</b>	<b>35</b>	<b>41</b>	<b>15</b>	<b>23</b>
	<b>5,000</b>	<b>100 µL</b>	<b>63</b>	<b>81</b>	<b>61</b>	<b>82</b>
<b>Selectrazyme®</b>	<b>5,000</b>	<b>50 µL</b>	<b>27</b>	<b>50</b>	<b>24</b>	<b>36</b>
	<b>10,000</b>	<b>100 µL</b>	<b>44</b>	<b>81</b>	<b>40</b>	<b>65</b>

\*All tests run at 70°C, with the included Rapid Hydrolysis Buffer.



\*All tests run at 65°C, with the included Rapid Hydrolysis Buffer.

Within minutes of application, Abalonase™ can deconjugate the major metabolites of interest including benzodiazepines, opioids, cannabinoids (naturally occurring and synthetic) and steroids.



Abalonase™ can be used for real time and room temperature hydrolysis for high-throughput drug screening applications.



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