

For Life Science research use only.  
Not for use in diagnostic procedures.



# Certificate of Analysis

Product Name: abalonase +<sup>®</sup>  
Form: Clear liquid solution.  
Catalog Number: ASFBETA-GLUC  
Lot Number: A170404P  
Storage Temperature: +2 to +8 °C

CAS RN 9001-45-0  
EC 3.2.1.31  
Synonym:  $\beta$ -D-Glucuronide glucuronosohydrolase,  $\beta$ -Glucuronidase.

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TEST	SPECIFICATION	RESULT	
Appearance	Clear solution	Clear solution	Pass
Glucuronidase Activity	$\geq 50,000$ Units/ml	60,293 units/ml	Pass
Sulfatase Activity	$\geq 400$ Units/ml	999	Pass

Glucuronidase Unit Definition: One Unit will liberate 1.0  $\mu$ g of phenolphthalein from phenolphthalein glucuronide per hour at pH 5.0 and 37 °C (30 min assay).

Sulfatase Unit Definition: One unit will hydrolyze 1.0  $\mu$ mole of p-nitrocatechol sulfate per hour at pH 5.0 and 37 °C.

Manufactured date                      April 4, 2017  
Analysis date                              April 4, 2017  
Recommended re-evaluation date    April 4, 2018

Analyzed by:

Handwritten signature of Roberto Muñoz in black ink.

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Roberto Muñoz  
Analyst

Approved by:

Handwritten signature of Martha Heller in black ink.

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Martha Heller  
Quality Assurance Director