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### Certificate of Analysis

Product Papain, Suspension  
Source Carica papaya Latex  
Country of Manufacture USA  
Storage Store at 2-8°C.  
Code PAP  
Lot Number  
Re-Assay Date  
Description Supplied as a two times crystalline suspension in 50mM sodium acetate, pH 4.5. To ensure full activity, the enzyme should be incubated in a solution containing 1.1mM EDTA, 0.067mM mercaptoethanol and 5.5mM cysteine-HCl for 30 minutes. It is recommended that the enzyme be 0.22 micron filtered after dissolution and prior to use.  
Unit Definition One Unit hydrolyzes one micromole of benzoyl-L-arginine ethyl ester per minute at 25°C, pH 6.2, after activation in a solution containing 1.1mM EDTA, 0.067mM mercaptoethanol and 5.5mM cysteine-HCl for 30 minutes.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mgP	32.7	Activates to at least 20.0 units per mg protein
mgP/ml	42.8	Report assay value.
u/ml	1,400	Report assay value.
Endotoxin EU/ml	< 0.5	Report Assay Value.

Approved by: Thomas R. Ryan, Quality Control Manager (signature on file)

Date: 11/30/18