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Certificate of Analysis

Product Papain, Lyophilized
Source Carica papaya Latex
Country of Manufacture USA
Storage Store at 2-8°C.
Code PAPL

Lot Number
Re-Assay Date

Description Supplied as a lyophilized powder prepared from a two times crystalline suspension, Code: PAP. 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	21.8	Activates to at least 15.0 units per mg protein
% Protein	79%	Report assay value.
u/mg dw	17.2	Report assay value.
Endotoxin EU/mg dw	< 1.0	Report Assay Value.

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

Date: 8/12/19