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### Certificate of Analysis

Product PDS Kit, Papain Vial  
Source Papaya Latex  
Country of Manufacture USA  
Storage Store at 2-8°C.  
Code PAP2

Lot Number  
Re-Assay Date

Description A component of the Papain Dissociation System, for use in the tissue dissociation method of Huettnner, J.E., and Baughman, R.W.: J. Neuroscience, 6, 3044 (1986). Contains papain, L-cysteine, and EDTA. This material is 0.22 micron membrane filtered and lyophilized in autoclaved vials. A vial reconstituted with 5 ml of EBSS or equivalent yields a solution at 20 units of papain per ml in 1mM L-cysteine with 0.5mM EDTA.

Unit Definition One unit hydrolyzes 1  $\mu$ mole of benzoyl-L-arginine ethyl ester per minute at 25°C, pH 6.2, after activation in a solution containing 1.1 mM EDTA, 0.067 mM mercaptoethanol and 5.5 mM cysteine-HCl for 30 minutes.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/vial	125	$\geq$ 100 units per vial
u/mgP	19.6	Report assay value.
% Protein	55%	Report assay value.
Colony Count	No cfu's detected	$\leq$ 1 cfu/ml
Endotoxin EU/mg dw	< 0.5	Report Assay Value.

Brief incubation is needed to ensure full solubility.

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

Date: 2/27/20