



730 Vassar Avenue, Lakewood, NJ 08701  
800.445.9603 \* 732.942.1660 fax 800.368.3108 \* 732.942.9270  
[www.worthington-biochem.com](http://www.worthington-biochem.com)

### Certificate of Analysis

Product STEMxyme® 1, Collagenase/Neutral Protease (Dispase)  
 Source Clostridium histolyticum/Bacillus polymyxa  
 Country of Manufacture USA  
 Storage Store at 2-8°C.  
 Code STZ1  
 Lot Number  
 Re-Assay Date  
 Description A specialized combination of Animal Free/AF *Clostridium histolyticum* collagenase (Code: CLSAFB) and animal origin free *Bacillus polymyxa* neutral protease with a minimum of 250 CLS units and 1,000 caseinase units per mg dry weight. Designed for stem cell and other primary cell isolations and bioprocessing applications where introduction of potential animal derived pathogens must be prevented.

#### Unit Definition

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw Collagenase	399	≥250 units per mg dry weight
u/vial, CLS (50 mg)	24,030	≥12,500 units per vial
u/mg dw Caseinase	1,391	≥1000 caseinase units per mg dry weight
u/vial, Caseinase (50 mg)	83,875	≥50,000 units per vial
u/mg dw Clostripain	3.11	≤5.00 clostripain units per mg dry weight
u/mg dw Tryptic	0.18	≤0.50 tryptic units per mg dry weight
u/mg dw FALGPA	0.45	Report Assay Value.
Endotoxin EU/mg dw	14.1	Report Assay Value.
A280nm @ 1 mg/ml	1.99	Report Assay Value.
Colony Count	<1 cfu/ml	≤1 cfu per ml
Fill Amount (50 mg)	60	≥50 mg

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

Date: 10/27/20