

Certificate of Analysis

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| Product | Elastase, Lyophilized |
| Source | Porcine Pancreas |
| Country of Manufacture | USA All products from animal sources are produced from starting material of USDA-approved origin, collected in United States Department of Agriculture (USDA) or equivalent approved facilities, inspected to be free of disease and suitable for exportation. Certificates of Origin are available upon request. |
| Storage | Store at 2-8°C. |
| Code | ESL |
| Lot Number | |
| Re-Assay Date | |
| Description | Two times crystallized, (Code: ESL), supplied as a dialyzed, lyophilized powder. The enzyme should be 0.22 micron filtered after reconstitution and prior to use. Suitable for the isolation of Type II lung cells. |
| Unit Definition | One Unit cleaves one micromole of N-succinyl-L-alanyl-L-alanyl-L-alanine-p-nitroanilide per minute at 25°C, pH 8.0 |

| <u>Parameter</u> | <u>Result</u> | <u>Acceptance Criteria</u> |
|-----------------------------|---------------|----------------------------|
| u/mgP | 3.99 | ≥3.00 units per mg protein |
| % Protein | 97% | Report assay value. |
| A280nm @ 1 mg/ml | 1.79 | Report assay value. |
| u/mg dw | 3.87 | Report assay value. |
| u/mg dw Trypsin (BAEE) | 0.0056 | Report Assay Value. |
| u/mg dw Chymotrypsin (ATEE) | 0.042 | Report Assay Value. |
| Endotoxin EU/mg dw | 46.1 | Report Assay Value. |