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### Certificate of Analysis

Product            Hyaluronidase, Purified

Source            Bovine Testes

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 -20°C.

Code              HSEP

Lot Number

Re-Assay Date

Description       Chromatographically purified. A dialyzed, lyophilized powder.

Unit Definition    One Unit is based on the change in absorbency (turbidity) at 540nm of an internal standard assayed concurrently with each lot. Internal standard replaces USP/NF reference no longer available.

| <u>Parameter</u> | <u>Result</u> | <u>Acceptance Criteria</u>     |
|------------------|---------------|--------------------------------|
| u/mg dw          | 7,010         | ≥3,000 units per mg dry weight |
| A280nm @ 1 mg/ml | 0.81          | Report assay value.            |
| SDS PAGE         | Satisfactory  | Satisfactory                   |

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

Date: 5/15/18