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### Certificate of Analysis

Product Phosphodiesterase I  
Source Crotalus adamanteus Venom  
Country of Manufacture USA  
Storage Store at -20°C.  
Code VPH  
Lot Number  
Re-Assay Date  
Description Purified by the method of Williams, Sung and Laskowski, *JBC*, 236, 1130 (1961). Further treated to inactivate contaminating 5'-nucleotidase activity according to Sulkowski and Laskowski: *BBA*, 240, 443 (1961). Lyophilized in vials.  
Unit Definition One Unit hydrolyzes one micromole of p-nitrophenyl thymidine-5-phosphate per minute at 25°C, pH 8.9.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	47.7	≥20 units per mg dry weight
% Nucleotidase	0.48%	≤8%
A280/vial	2.63	Report assay value.
u/vial	105	≥100

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

Date: 5/20/19