

## Certificate of Analysis

Relationship Between Control Standard Endotoxin (CSE) and  
Reference Standard Endotoxin (RSE) – **PYROSTAR™ES-F Multi** (KIT)

RSE:	USP Endotoxin Reference Standard Lot # HOK354, 10,000 EU/vial
CSE:	Control Standard Endotoxin (Wako Chemicals USA, Inc.)
CSE Lot No.:	G-74USA
Concentration:	500 ng/vial, <i>E. coli</i> UKT-B
Tested Against:	<b>Limulus Amebocyte Lysate</b> <b>PYROSTAR™ES-F MULTI TEST (5.2 mL)</b> <b>SENSITIVITY 0.125 EU/mL</b>
LAL Lot No.:	041915
Production Date:	26 APR 2019
Sensitivity:	0.125 EU/mL
Expiration Date:	2022.03
Determination Method:	KTA
<u>Approximate Biological Activity:</u>	
EU per Vial:	4,700 EU/vial

**Method**

Reconstitute the CSE with 4.7 mL LAL Reagent Water to get 1,000 EU/mL and vortex for 2 minutes at room temperature. After reconstitution, store CSE at 2→10°C for up to 1 month. DO NOT FREEZE CSE. For subsequent usages, vigorously vortex the solution for 1 minute before use. Vortex each CSE dilution for at least 30 seconds during preparation of dilutions.

**Reference**

United States Pharmacopeia (USP), 2011, General Chapter <85>, Bacterial Endotoxins Test (BET)

This is to certify that this product lot was manufactured according to current cGMP Standards, meets Wako Chemicals USA – LAL Division's product specifications, and complies with all applicable requirements for product release.

Created By: Jason Holliday Date: 7/1/2019

Quality Assurance  
Approval By: Nalabir Lakha Date: 7/1/2019