

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-71USA
Concentration:	500 ng/vial, <i>E. coli</i> UKT-B
Tested Against:	<i>Limulus Amebocyte Lysate</i> PYROSTAR™ES-F MULTI TEST (2 mL) SENSITIVITY 0.125 EU/mL
LAL Lot No.:	041805
Production Date:	13 APR 2018
Sensitivity:	0.125 EU/mL
Expiration Date:	2021.03
Determination Method:	KTA
<u>Approximate Biological Activity:</u>	
EU per Vial:	5,000 EU/vial
Method Reconstitute the CSE with 5.0 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: 13 July 2018Quality Assurance
Approval By: [Signature] Date: 16 July 2018