

**LAL Division**

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**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 # H0K354, 10,000 EU/vial
CSE:	Control Standard Endotoxin (FUJIFILM Wako Chemicals U.S.A. Corporation)
CSE Lot No.:	G-81USA
Concentration:	500 ng/vial, <i>E. coli</i> UKT-B
Tested Against:	<b><i>Limulus Amebocyte Lysate    PYROSTAR™ES-F MULTI TEST (5.2 mL)    SENSITIVITY 0.03 EU/mL</i></b>
LAL Lot No.:	042005
Production Date:	09 APR 2020
Sensitivity:	0.03 EU/mL
Expiration Date:	2023.03
Determination Method:	KTA
<u>Approximate Biological Activity:</u>	
EU per Vial:	4,000 EU/vial
<b>Method</b> Reconstitute the CSE with 4.0 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.	
<b>Reference</b> United States Pharmacopeia (USP), 2020, General Chapter <85>, Bacterial Endotoxins Test (BET) European Pharmacopeia (EP), Chapter 2.6.14, Bacterial Endotoxins	
This is to certify that this product lot was manufactured according to current FDA's cGMP Standards which meets FUJIFILM Wako Chemicals U.S.A. Corporation – LAL Division's product specifications and complies with all applicable requirements for product release.	

Created By: Jason Holliday

Date: 05 / 22 / 2020

Quality Assurance Approval By: John Walden

Date: 5 / 25 / 2020