

PYROSTAR™ ES-F Multi-Test on the Water Bath or Heat Block - Gel Clot Method

This is a guide to explain how to perform the Gel Clot method with PYROSTAR™ ES-F Multi-Test on the water bath or heat block. Prior to performing the assay, allow the reagent to come to room temperature and the equipment to reach 37°C±1°C.

Step 1:

Reconstitute the Control Standard Endotoxin (CSE) with the LAL Reagent Water (LRW) to yield a concentration of 1000 EU/mL based on the Certificate of Analysis.



Step 2:

Vortex the reconstituted CSE for 2 minutes.

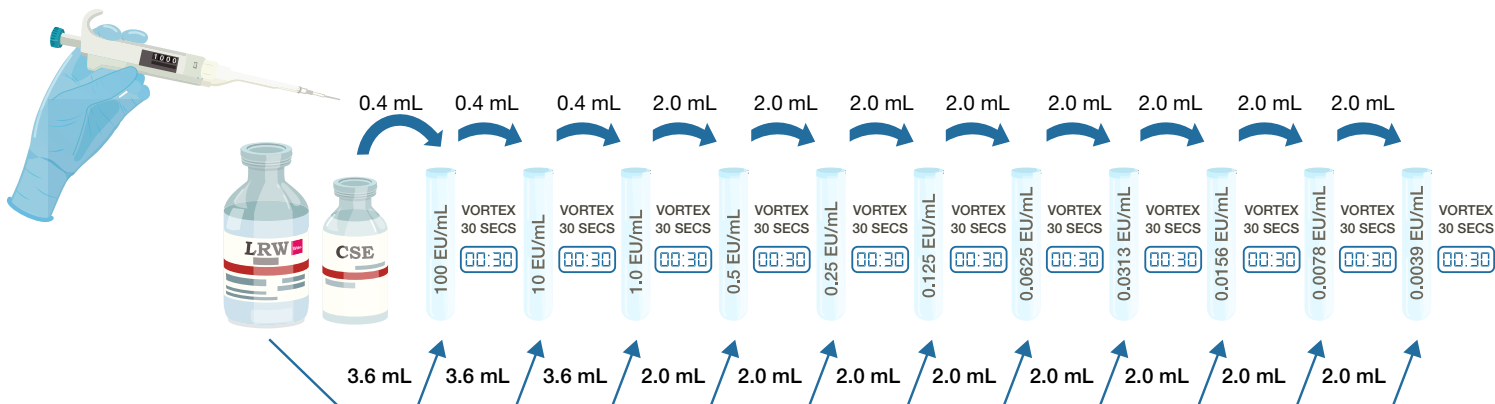


Step 3:

Label the endotoxin concentration for each dilution tube and add the appropriate volume of LRW. Using the reconstituted CSE, prepare a two-fold dilution series to bracket the label sensitivity.

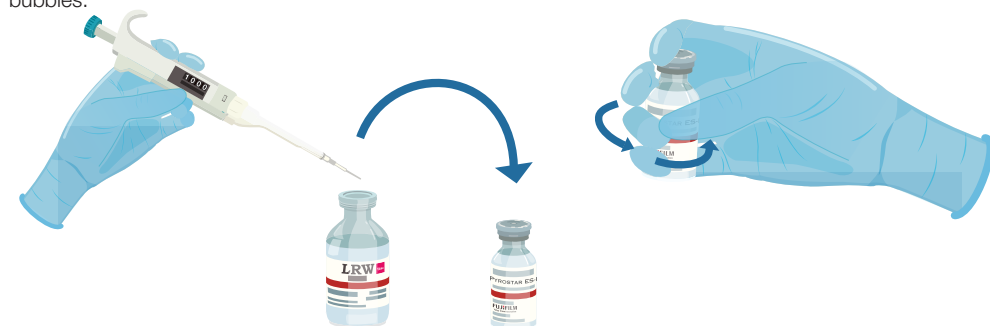
Dilutions may be prepared in different volumes if the same ratios are maintained.

Dilution series for labeled sensitivity: 0.015 EU/mL



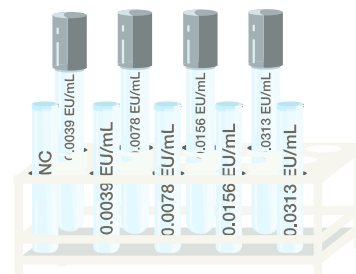
Step 4:

Bring all contents to the bottom of the PYROSTAR™ ES-F Multi (LAL) vial. Reconstitute the LAL vial (volume shown on the LAL label) with LRW. Swirl the LAL vial gently until the contents are dissolved, avoid making bubbles.



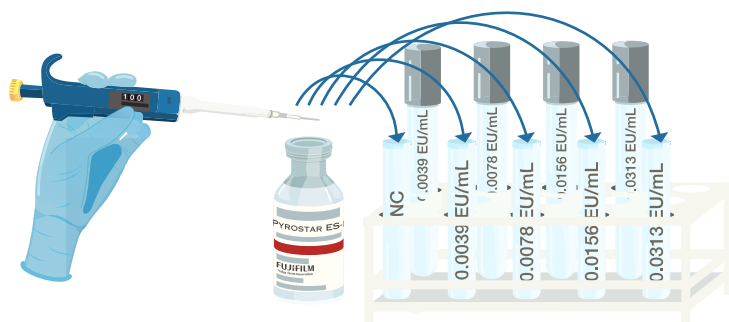
Step 5:

After adequately swirling the LAL reagent, label each reaction tube with the appropriate identifier.



Step 6:

Add 100 μ L of reconstituted LAL reagent to each reaction tube.



Step 8:

Immediately place reaction tubes in the water bath or heat block. Incubate each reaction tube at 37°C \pm 1°C for 60 minutes (\pm 2 minutes).

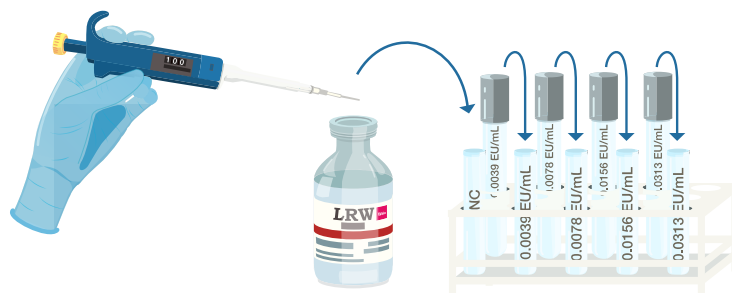
Remember to have laboratory equipment in an area with no vibration.



For more detailed information, refer to the PYROSTAR™ ES-F package insert.

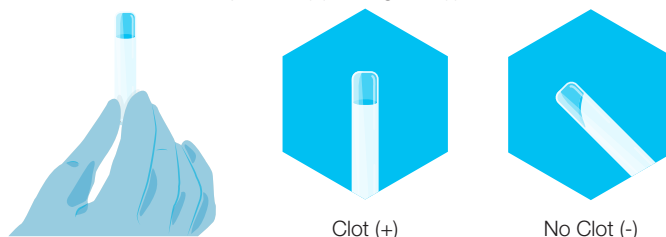
Step 7:

Add 100 μ L of the endotoxin standards, controls, samples, etc., to the appropriate reaction tubes.



Step 9:

After incubation, remove each reaction tube and carefully invert 180°. Record if the reaction is positive (+) or negative (-).



Materials needed for Gel Clot Method

Offered at FUJIFILM Wako

	Name of Products	Content	Catalog Number
Depyrogenated test tubes	10 x 75 mm Borosilicate Test Tubes	Gel Clot Reaction tubes (200 tubes/pkg)	CT-1075
	13 x 100 mm Borosilicate Test Tubes	Dilution Tubes (50 test tubes)	DL-13100
	Aluminum Cap S	14.7 x 18 mm (100 caps/pkg)	293-28251
Endotoxin-free consumables	LAL Reagent Water, 30 mL	20 x 30 mL glass bottles	LRW-2030
	LAL Reagent Water, 100 mL	12 X 100 mL glass bottles	LRW-12100
	BioCleanTip Wako® 200 II	200 μ L/tip (100 tips/pkg)	291-35021
	BioCleanTip Wako® 1000 II	1000 μ L/tip (100 tips/pkg)	298-35031
	BioCleanTip Wako® Extend S	200 μ L/tip (100 tips/pkg)	294-35011
LAL Reagents	PYROSTAR™ ES-F Multi-Test (2.0 mL) 4 multi-test vials (2.0 mL) + 1 vial CSE (500 ng/vial)	Sensitivity: 0.015 EU/mL	WPEK4-20015
		Sensitivity: 0.03 EU/mL	WPEK4-20003
		Sensitivity: 0.06 EU/mL	WPEK4-20006
		Sensitivity: 0.125 EU/mL	WPEK4-20125
		Sensitivity: 0.25 EU/mL	WPEK4-20025
	PYROSTAR™ ES-F Multi-Test (5.2 mL) 4 multi-test vials (5.2 mL) + 1 vial CSE (500 ng/vial)	Sensitivity: 0.015 EU/mL	WPEK4-50015
		Sensitivity: 0.03 EU/mL	WPEK4-50003
		Sensitivity: 0.06 EU/mL	WPEK4-50006
		Sensitivity: 0.125 EU/mL	WPEK4-50125
		Sensitivity: 0.25 EU/mL	WPEK4-50025

Not offered at FUJIFILM Wako

- Heat Block or Water Bath
- Pipettes
- Test Tube Rack
- Vortex Mixer