

PyroMAT® System Monocyte Activation Test (MAT)

Reference Standard Endotoxin - Ref. 1.44161.0001

Product description

The Reference Standard Endotoxin (RSE) is the endotoxin standard recommended by the European Pharmacopeia and supplied in a lyophilized form. Its assigned content is 10 000 International Units per vial.

The RSE is used to perform endotoxin standard curve that allows quantification of pyrogens with the PyroMAT® System (Monocyte Activation Test for pyrogen detection). Endotoxin activates the **TLR4 receptor** of monocytes.

Storage condition

Store unopened vial at -20 °C.

Upon resuspension, prepare 50 µL aliquots and store at -40 °C or below. Our experience shows that the resuspended product is stable over at least one year at -80 °C. We have not performed a shelf life study for this product.

Avoid repeated freeze-thaw cycles.

Quick Procedure

Resuspension:

- Reconstitute the RSE with 5 mL of pyrogen-free water
 - Mix intermittently for 30 minutes using a vortex mixer at maximum speed
 - Divide stock solution into 50 µL aliquots, into endotoxin-free microcentrifuge tubes
- This reconstitution gives a stock solution at 2000 EU/mL used for MAT with PyroMAT® system.

For preparing serial dilution, aliquots of stock solution are to be taken after vigorous mixing for 3 minutes.

Subsequent dilutions are to be mixed for at least 30 seconds.

Suitable precautions should be taken in the use and disposal of the vial and its content.

PyroMAT® system products

Product	Catalog number
PyroMAT® cells	PYROMATCELLS
PyroMAT® kit	PYROMATKIT
Reference Standard Endotoxin	1.44161.0001
NEP Control Flagellin	MATFLAGELLIN
NEP Control HKSA	MATHKSA
NEP Control FSL-1	MATFSL1
NEP Control PAM3CSK4	MATPAM3CSK4
NEP Control Resiquimod	MATRESIQUIMOD

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