Millipore®
Preparation, Separation,
Filtration & Monitoring Products

PyroMAT® System Monocyte Activation Test (MAT)

NEP Control HKSA - Ref. MATHKSA

Product description

NEP Control HKSA is a heat-killed preparation of *Staphylococcus aureus*, supplied in a lyophilized form.

HKSA is a non-endotoxin pyrogen (NEP) that activates **TLR2** receptor of monocytes and can be used as a positive control with the PyroMAT® system (Monocyte Activation Test for pyrogen detection). NEP control HKSA is to be used for Product Specific Validation (PSV) and routine testing to show that the system is able to detect non-endotoxin pyrogen contaminants.

Storage condition

Store unopened vial at 2-8 °C.
Upon resuspension, prepare 50 µL aliquots and store for up to 6 months at -20 °C.
Do not use after expiration date of the product.
Avoid repeated freeze-thaw cycles.

Quick Procedure

Resuspension:
- Reconstitute the NEP Control HKSA with 1 mL of pyrogen-free water
- Vortex 1 minute or until complete homogenization
- Divide the obtained solution into 50 µL aliquots, into endotoxin-free microcentrifuge tubes

This reconstitution produces a 1000X stock solution to be used for Product Specific Validation and routine tests with PyroMAT® system.

After serial dilution in pyrogen-free water with 15 seconds of vortexing time between each dilution, the NEP Control HKSA is usually used at a concentration of 0.5X, as a positive control with the PyroMAT® system.

Warning: an extended time of vortex during the dilutions preparation can induce a decrease of response in MAT assay.

PyroMAT® system products

Product	Catalog number
PyroMAT® cells	PYR0MATCELLS
PyroMAT® kit	PYR0MATKIT
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	MATRESIQUIM0D

To place an order or receive technical assistance

Order/Customer Service:
SigmaAldrich.com/order

Technical Service:
SigmaAldrich.com/techservice

SigmaAldrich.com/PyroMAT

Merck