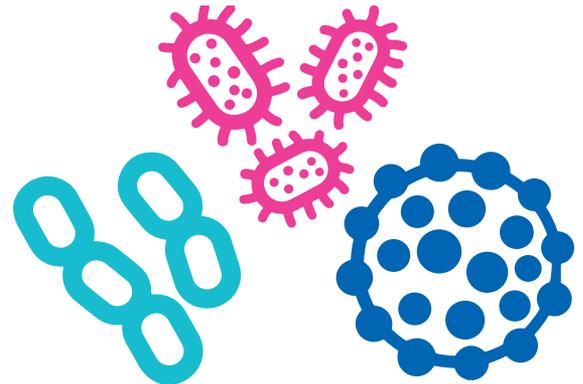


# Non-endotoxin pyrogen controls designed for the PyroMAT® system

## Make your choice

Meet regulatory requirements for Monocyte Activation Test (MAT) with our non-endotoxin pyrogen controls designed for the PyroMAT® system

- Relevant positive controls for pharmaceutical batch release
- Controls targetting different monocytic toll-like receptors (TLRs) and mimicking several types of contaminants
- Concentrations defined and validated for use with the PyroMAT® system
- Certified endotoxin-free (LAL test < 0.05 EU/mL at concentration of use)



## An extended range of positive controls...

### Why?

The European Pharmacopeia Chapter 2.6.30 (Monocyte Activation Test) requires that the preparatory testing includes *at least 2 non-endotoxin ligands for PRRs, [...]The choice of non-endotoxin pyrogens used should reflect the most likely contaminant(s) of the preparation to be examined.*

### ...giving you the chance to make your choice

To respond to this requirement, we are providing an extended range of positive controls:

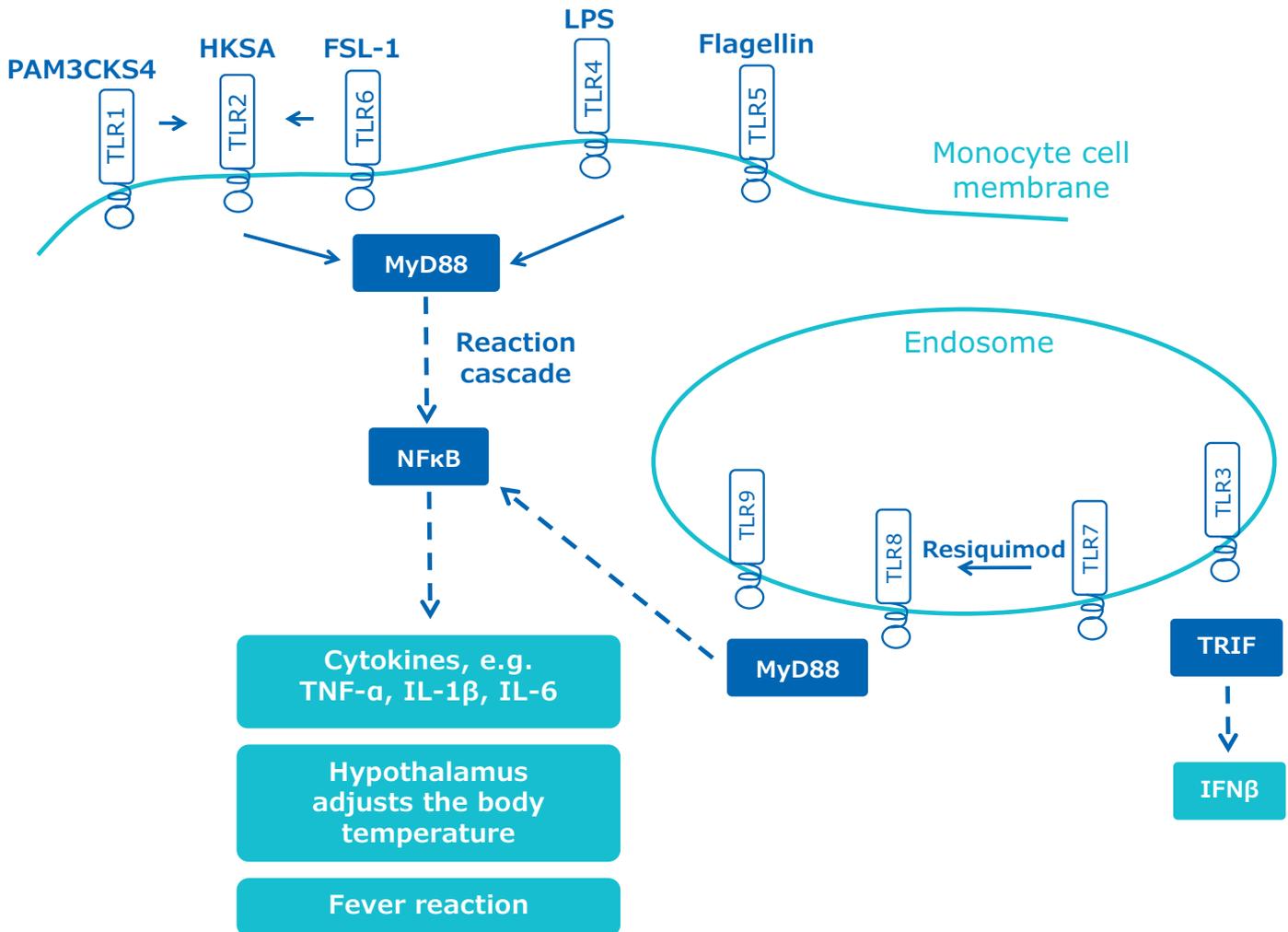
- Reflecting several types of contaminants usually found in pharmaceutical production processes (Gram-negative and Gram-positive bacteria, viruses and mycoplasma).
- Targeting several monocytic TLRs

**You can select the controls that best suit your needs for a relevant and safe pyrogen test using our PyroMAT® system.**

**NEP positive control portfolio for MAT with the PyroMAT® system**

	Description	Target TLR	Contaminant reflected	Link to technical sheet
<b>HKSA</b>	NEP Control HKSA is a heat-killed preparation of <i>Staphylococcus aureus</i>	TLR2	Gram-positive bacteria	 <a href="https://sigmaaldrich.com/pyromat-hksa-ts">SigmaAldrich.com/pyromat-hksa-ts</a>
<b>Flagellin</b>	NEP Control Flagellin is a preparation of Flagellin from <i>Salmonella typhimurium</i>	TLR5	Gram-positive and Gram-negative bacteria	 <a href="https://sigmaaldrich.com/pyromat-flagellin-ts">SigmaAldrich.com/pyromat-flagellin-ts</a>
<b>PAM3CSK4</b>	NEP Control PAM3CSK4 is a synthetic triacylated lipopeptide	TLR2/TLR1	Gram-positive and Gram-negative bacteria	 <a href="https://sigmaaldrich.com/pyromat-pam-ts">SigmaAldrich.com/pyromat-pam-ts</a>
<b>Resiquimod</b>	NEP Control Resiquimod R848 is an imidazoquinoline compound with anti-viral activity	TLR7/TLR8	Virus	 <a href="https://sigmaaldrich.com/pyromat-resi-ts">SigmaAldrich.com/pyromat-resi-ts</a>
<b>FSL-1</b>	NEP Control FSL-1 is a synthetic lipoprotein of <i>Mycoplasma salivarium</i>	TLR2/TLR6	Mycoplasma	 <a href="https://sigmaaldrich.com/pyromat-fsl-ts">SigmaAldrich.com/pyromat-fsl-ts</a>

**Activation of toll like receptors (TLRs) by pyrogenic ligands**



## Ordering information

Cat. No.	Product name	Additional information
MATHKSA	NEP control HKSA	Sufficient for 20 tests Store at 2-8 °C
MATFLAGELLIN	NEP control Flagellin	Sufficient for 10 tests Store at -20 °C
MATPAM3CSK4	NEP control PAM3CSK4	Sufficient for 20 tests Store at 2-8 °C
MATRESIQUIMOD	NEP control Resiquimod	Sufficient for 20 tests Store at -20 °C
MATFSL1	NEP control FSL-1	Sufficient for 20 tests Store at 2-8 °C

### PyroMAT® system related products:

Cat. No.	Product name	Additional information
PYROMATKIT	PyroMAT® Kit	Sufficient for 1 test Store at 2-8 °C
PYROMATCELLS	PyroMAT® Cells	Sufficient for 1 test Store at -80 °C, -150 °C or in liquid nitrogen
144.161.0001	Reference Standard Endotoxin (RSE)	Sufficient for 100 tests Store at -20 °C



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