NEW pyrogen test using frozen PBMCs

The European Pharmacopoeia (EP) states that, after a product-specific validation, the Monocyte Activation Test (MAT) is suitable as a replacement for the rabbit pyrogen test. The MAT Cell Set offers a pool of frozen PBMCs with a dedicated culture medium supplement ensuring a high sensitivity.

MAT Cell Set contents:
- 3 Vials each containing PBMCs pooled from four donors
- 3 Vials of dedicated MAT Culture Medium Supplement
- Sufficient material to run three 96-wells plates

Key features:
In combination with the Sanquin PeliKine compact IL-6 ELISA kit and toolset (not included):
- MAT Cells qualified according to EP 2.3.60
- High sensitivity: LOD ≤ 0.01 EU/mL
- Storage at -80ºC (no liquid nitrogen required)
- Assay time ~24 hours including overnight culture
- Reactive to LPS and non-endotoxin pyrogens

Recommended ELISA and facility:
- Sanquin PeliKine compact IL-6 ELISA kit M1916 and toolset M1980, sufficient for three high-sensitive ELISA plates
- Cell culture facility and competences for cell culture and ELISA procedures are required. Please contact us to discuss dedicated requirements

Sanquin’s expertise in MAT:
Sanquin Reagents collaborates closely with Sanquin Research, Diagnostic Services, Plasma Products and Blood Bank. This combination of expertise has resulted in a unique setting for the development, production and support of MAT, which is now available for your needs both in the form of an assay kit as well as test services performed by Sanquin Diagnostics.

Principle of the test:
Day 1:
Sterile and non-pyrogen conditions:
- Add in a 96-wells plate MAT Cells, standard, samples, culture medium
- Overnight incubation at 37ºC

Day 2:
Standard lab conditions:
- Transfer supernatant into cytokine ELISA
- Measure cytokine levels and analyse samples

References:

Ordering:
Please contact Sanquin Reagents via the information below.