

CERTIFICATE OF ANALYSIS

instaCELL pyrogen detection kit

CatN°: SF240-01

Lot#:

Expiry Date: 13.01.2025

PD-230925

PRODUCT DEFINITION

Test kit to assess the pyrogenity of chemicals and leachables by their application to cultures of THP-1 derivded macrophages and the subsequent determination of TNF $\!\alpha$ concentration.

QUALITY SPECIFICATION OF THE CELLS

	Batch Quality Control		
Cell Count	1.04E+07	9.0E+06 < result < 1.1E+07	
Homogenity (cell count)	95%	≥ 90%	
Viability (after thawing)	97 %	≥ 90%	
Debris/Cell Ratio	0.3	≤ 1.0	
Aggregation	1.54	≤ 2.0	
Sterility (bacteria, yeast, fungi)	passed	negative after 7 days	
Sterility (mycoplasma)	passed	negative by PCR	
Morphology	passed	unalterd to reference	
LOD	passed	< 0.05 EU/ml	

KIT CONTENT

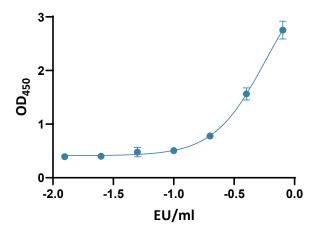
	Cat-N°	Lot#	Storage	Quantity
Recovery Buffer A	MD163-01	91-230711ML03	-20°C	1
Assay Buffer A	MD363-06	91-230711ML01	-20°C	1
MAT - ELISA Buffer	RX513-01	91-230918VP05	4°C	1
MAT - TMB Solution	RX514-01	91-230918VP06	4°C	1
MAT - Coating Buffer	RX511-01	91-230918VP04	4°C	1
MAT - Capture Antibody	RX509-01	91-230918VP01	4°C	1
MAT - Detection Antibody	RX510-01	91-230918VP02	4°C	1
MAT - BRP-Standard	RX515-01	91-230113ML01	-20°C	1
MAT - Streptavidin-HRP	RX512-01	91-230918VP03	4°C	1
Assay Ready THP-1 macrophages	RE514	92-230831CF01	< -140°C	1
96-well Assay Plate	ZG14-08	3021921	RT	1
96-well ELISA Plate	LM071-00	20145370	RT	1

Sterility was analyzed by microscopic/visual control after seven days according to sterility testing. Functionality of the content was tested by performing the assay with all listed batches.

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MAT ASSAY:



Dose response of the BRP-Standard performed according to the assay protocol.

METHODS

Cell Viability Parameters (cell count, viability, aggregation, amount of debris) are determined in a CASY TT automatic cell counter. Homogeneity is analyzed in a plate-based assay.

Proliferative Capacity compares the mean growth rates of freshly thawed cells in relation to exponentially growing cells over 72 hours.

Sterility is tested by inoculation of aerob and anaerob growth broths (Tryptic Soy and Thioglycollate for bacteria, yeast and fungi) with samples and cultivation over a course of 7 days.

Mycoplasma are detected by PCR using a mycoplasma detection kit.

Species Identity is tested by amplification of a specific fragment of 18S rRNA coding region via multiplex PCR (dog, mouse, Chinese hamster, human, monkey, rat, pig and bovine).

Human Cell Identity is performed by STR analysis (DNA fingerprinting). Markers: D3S1358, D5S818, D7S820, D8S1179, D13S317, D16S539, D18S51, D2IS11, CSF1PO, FGA, TH01, TPOX and vWA, DYS391, D2S441, D1S1656, D2S1338, Y indel, D12S391, D19S433, D22S1045, D10S1248, SE33, Amelogenin.

Pyrogen Assay: The assay was performed according to the assay protocol.

LIMITED USE

The product is provided under the terms of a limited use license provided with the kit. By breaking the sealed bag, the user is explicitly accepting the terms for limited use.

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