

## **CERTIFICATE OF ANALYSIS**

## instaCELL GM-CSF potency assay kit

CatNo: SF340-01 Lot#: GMP-230927

Expiry Date: 15.06.2024

#### **PRODUCT DEFINITION**

Test kit to assess the potency of GM-CSF products by their application to cultures of mammalian cells and the subsequent determination of cell viability.

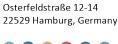
### **QUALITY SPECIFICATION OF THE CELLS**

	Batch Quality Control	Specification Limits	
Cell Count	2.82E+06	$2.0E+06 \le x \le 4.0E+06$	
Homogenity (cell count)	98%	≥ 90%	
Viability (after thawing)	88%	≥ 85%	
Proliferative Capacity	70%	≥ 70%	
Sterility (bacteria, yeast, fungi)	passed	negative after 7 days	
Sterility (mycoplasma)	passed	negative by PCR	
Morphology	passed	unalterd to reference	
EC₅o GM-CSF Ref.	53 pg/ml	20 pg/ml – 60 pg/ml	

## KIT CONTENT

	Cat-N°	Lot#	Storage	Quantity
Recovery Buffer M	MD164-01	91-230613ML03	-20°C	1
Assay Buffer M	MD364-06	91-230615ML01	-20°C	1
GM-CSF Reference	RX519-01	91-230615ML03	-20°C	1
Resazurin	RX718-01	91-230630ML01	-20°C	1
Assay Ready TF-1 Cells	RE509K	92-230715ML01	<-140°C	1
96-well Assay Plate	ZG02-13	2322102	RT	1

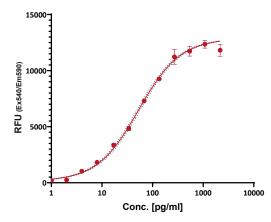
Sterility was analyzed by microscopic/visual control after seven days according to sterility testing. Functionality of the content was tested by performing the assay with all listed batches.



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#### **POTENCY ASSAY**



Dose-Response curve of the GM-CSF Reference 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.

Potency Assay: The assay was performed according to the instaCELL 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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