

# Patch Ready CHO-hERG-DUO

licensed by B'SYS (Switzerland)

# Certificate of Analysis

Lot-N°: **92-180907CM01**

Date: **17.09.2018**

## BATCH SPECIFICATIONS

Lot-N°:	92-180907CM01	Cell Designation:	CHO-hERG-DUO
Batch Size:	105 Vials	Cell ID:	ID0275
Cell Count (nominal):	5 million cells / vial	Cell Origin:	B'SYS
Expansion:	HAM's F12, 10% FBS, 2 mM L-Glutamine		
Freezing:	HAM's F12, 10% FBS, 2 mM L-Glutamine, 5 % DMSO		
Storage:	Below -130°C (e.g. liquid nitrogen)		
Approval Date:	17.09.2018	Approved by:	<i>Susan Ciura</i>

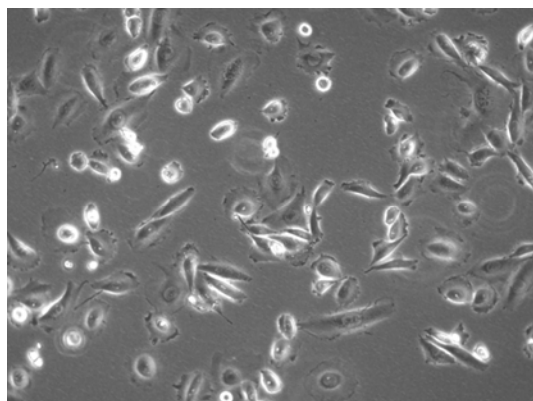
Susan Ciura (Head of Quality Control)

## QUALITY CONTROL

Samples Tested: 4 Vials of 105

	Results	Specification Limits
Cell Count	5,58E+06	90 % < > 120 %
Homogeneity (deviation in cell count)	0 %	< 10 %
Viability (after thawing)	97,4 %	> 90 %
Aggregation	1,4	2,0
Debris / Cell	0,2	< 0,5
Proliferative Capacity	96 %	> 85 %
Sterility (bacteria, yeast, fungi)	no contamination detected	negative after 4 days
Sterility (mycoplasma)	no mycoplasma detected	negative by PCR
Morphology	normal, no visible changes	unchanged to seed culture
Functional Performance		

## MORPHOLOGY:



Patch Ready CHO-hERG-DUO Cells

## CONTACT

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## METHODS

- Cell Viability Parameters:** Viability parameters (viable cell count after thawing, grade of aggregation, percentage of debris) were determined from a pooled sample (SOP-2015-02). Briefly, assay ready cells were thawed in a water bath. 50 µl of each sample were pooled, diluted 1:1000 in CASY Ton buffer and measured (3 replica) in a CASY TT automatic cell counter. Vial to vial variation was determined in a plate based viability assay. Equal aliquots of each cell samples were dispensed into a 96 well-plate. A cellular dye, was added to the well to obtain fluorescent signal which is proportional to the viable cell count.
- Proliferative Capacity:** 1,0E+04 cells from the cell samples and from a reference of a continuously passaged culture were seed in a 96-well plate (8 replica each). After 48 hours of cultivation the proliferation of the cells was determined by addition of a metabolic cell dye (Resazurin). The proliferative capacity of the cells is calculated in percent of the exponentially growing reference. (SOP-2017-03).
- Sterility Testing:** Cells were seeded @ 1,0E+04 cells/cm<sup>2</sup> into a T25 cell culture flask in antibiotic free cell culture medium and cultivated over a course of four days. Every day, the cultures was analyzed microscopically for cell growth, cell morphology, and incidences of contamination (bacteria, yeast, or fungi). For mycoplasma testing from a three days old, sub-confluent culture 500 µl of the supernatant was taken and analyzed by PCR using a Mycoplasma detection kit (Minerva). Assay was performed according to the manufacturer protocol (SOP-2015-06).

acCELLerate is maintaining a quality management system certified according to EN ISO 9001-2015. All equipment is subject to a guided system. Regular cleaning and maintenance intervals as well as hygienic monitoring are set and complied for the devices. Suppliers are regularly evaluated, and a risk management is established. Deviations are documented, and a CAPA-system is established. Individual certificates and verification documents can be provided upon request by the quality management department.