

CHO-K_vLTQ/minK

PRC - patch ready cells

Certificate of Analysis

Lot-N°: 92-170303CM01

PRODUCT INFORMATION

Patch ready cells are prepared from recombinant cell lines expressing certain ion channel. The cells are provided in a functionally frozen state and can be used for automated and manual patch clamp experiments instantly after thawing. There is no requirement to cultivate or passage the cells before use.

Cat-N°:	RE304-01
Lot-N°:	92-170303CM01
Cell Line Designation:	CHO-K _v LTQ/minK (licensed by B'SYS GmbH)
Product Format:	patch-ready frozen cells, division arrested by Mitomycin C treatment
Freezing Medium:	Ham'sF12/FBS/DMSO
Packaging (nominal):	10 million cells / vial
Additional Components:	recovery buffer, bath buffer
Storage:	Cells: below -140°C (mechanical freezer or liquid nitrogen) Buffer: +4°C
Expiry Date:	03.03.2020

GMO INFORMATION:

Biosafety Level (BSL):	1	Host Cell Line:	CHO-K1
Vector Construct 1:	pcDNA5	Genes:	KCNQ1, Hygromycin-Res.
Vector Construct 2:	pcDNA3.1	Genes:	KCNE1, G418-Res.

QUALITY SPECIFICATION

	Lot-N° 92-170303CM01	Specification Limits
Cell Count ¹	1,45E+07 (+/- 9,9E+05)	90 % < > 120 %
Viability (after thawing) ¹	96,6 % (+/- 0,7 %)	> 95 %
Aggregation ¹	1,53 (+/- 0,11)	2,0
Debris Ratio ¹	0,07 (+/- 0,04)	< 0,5
Stability ⁴	3 hours	> 2 hours
Seal Rate ⁵	92%	80%
Success Rate ⁵	78%	70%
Sterility (bacteria, yeast, fungi) ²	no contamination detected	negative after 4 days
Sterility (mycoplasma) ³	no mycoplasma detected	negative by PCR

¹: as determined by CASY TT cytometer,

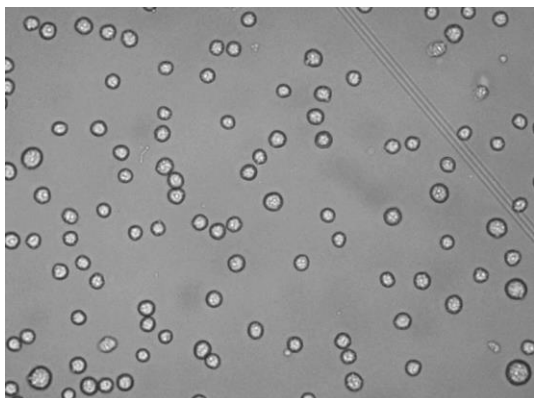
²: by microscopic/visual control after four days of culture in the absence of antibiotics,

³: as determined in the cell culture supernatant after four days of cultures by PCR,

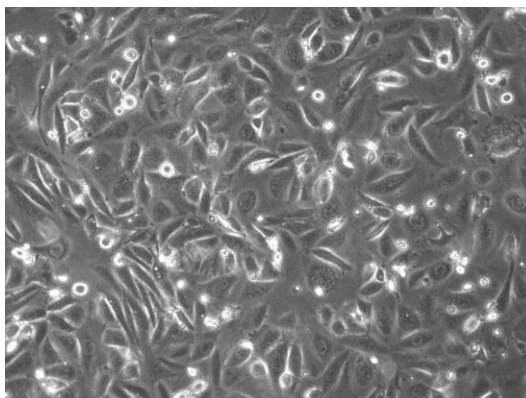
⁴: cells were maintained in bath buffer at room temperature while carefully agitated. Viability, aggregation and debris were tested to be within the specifications after the time indicated.

⁵: cells were analyzed in whole-cell configuration to get a membrane resistance of greater than 1 GΩ established (seal rate) and to complete a recording free of rundown (success rate)

MORPHOLOGY:



Patch ready CHO-KvLTQ/minK (Lot-N°: 92-170303CM01)
directly after thawing



Patch ready CHO-KvLTQ/minK (Lot-N°: 92-170303CM01)
48 hours after seeding

FUNCTIONAL PERFORMANCE:

n.d.

APPROVAL:

Approval Date: 12.03.2017
Approved by: Susan Ciura
Title: Head of Quality Control

Signature: