

CCHCS Cryopreserved Common Carp Hepatocytes for Suspension Assays Cell Specification – Certificate of Analysis (CoA)

Lot CCH200512 Pool Batch Release: November 27, 2020

Species: Common Carp (Cyprinus carpio)

Supplier: Fish farm Lewitz Fisch Hermann Stahl,

Neustadt-Glewe

Acclimation temperature: 13.7 ± 0.7 °C

Age: approx. 1-2 years

Number and gender of animals: 2 female and 1 $\,$

male (sexually immature)

All animals were kept under controlled

environmental conditions at "Aquaristikshop" in

Schwerin.

Animal characteristics:

Donor	1	2	3
Fish weight [g]	276	376	370
Gonad weight [g]	0.50	1.73	1.14
GSI (gonad weight/fish weight)	0.18	0.46	0.31

GSI = Gonadosomatic index

Cryopreservation:

Date: May 12, 2020

Amount per vial: 7 x 10⁶ cells

Thawing: n=2

Post-thaw viability: $96.3 \pm 1.0 \%$

Post-thaw yield per vial: $2.6 \pm 0.04 \times 10^6$ cells

Recovery: $37 \pm 0.5 \%$

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 14 °C with 0.5×10^6 cells in 0.5 ml L-15 medium with 5 % FCS):

Time [h]	0	1	2	3	4	5
Viability [%]	96.3	94.7	96.2	92.7	97.8	96.6

Determination of CYP activities in suspension (Eppendorf Thermomixer C, 1000 rpm at 14 $^{\circ}$ C with 0.5 x 106 cells in 0.5 ml L-15 medium with 5 $^{\circ}$ FCS):

Assay	Enzyme activities (pmol/min*mg protein) mean ± SD
Phenacetin-O-deethylase	2.4 ± 0.6
Bupropion-hydroxylase	1.8 ± 0.3
Midazolam 1'-hydroxylase	4.8 ± 0.9



Animal husbandry conditions after acclimation period of 2 weeks:

Water temperature [°C]	14.1 ± 1.0
рН	8.1 ± 0.1
NH ₄ [mg/L]	0.05 ± 0.06
NO ₂ [mg/L]	0.05 ± 0.03
NO₃ [mg/L]	12.0 ± 1.6
Carbonate hardness [°KH]	8.1 ± 0.3
Salinity [‰]	0.2 ± 0.0
Conductivity [µS/cm]	568 ± 5.0

Note: For thawing of fish hepatocytes please follow the respective conditions in our manual "Thawing and Culturing of Cryopreserved Primary Hepatocytes in 2D and Suspension".

Store at -150 °C or in the vapour phase of LN₂.

This product should be considered as potential biohazard. Only intended for *in vitro* use.

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