Certificate of Analysis

Ensuring Integrity in Every Cell Line

Product	CHO-K1 suspension adapted	**Passage Number**	8
Species	Hamster	**Cell Count per mL**	3.33 million
Cytion™ Number	603486	**Volume per ampule**	1.5
Lot Number	603486-160126	**Freeze Date**	16.01.2026
Product Format	cryovial	**Freeze Medium**	Freeze medium containing FBS
Storage Conditions	Below -150°C	**Expiration Date**	Not applicable
Identity match	94.4%		

At Cytion, we ensure the quality and reliability of our cell lines through in-house and third-party testing, including:

1. STR Profiling: To authenticate cell line identity.
2. Virus Testing: For species-specific viruses where possible.
3. Mycoplasma Testing: To prevent contamination.
4. Interspecies Contamination Testing: To ensure purity.
5. Bacteria and Fungi Testing: To ensure cells are free from microbial contaminants.

TEST OVERVIEW

Test	Methodology	Acceptance Criteria	Outcome
Post-Freeze Viability	Viability assessment using Vi-CELL BLU by Beckman Coulter (analyzing 100 images per sample, 200 µl cell suspension per test)	70% post-thaw cell viability	98.4%
Recovery	Culture in the appropriate growth medium, microscopic evaluation and viable cell counting	Increase in viable cells within the expected recovery period, indicating successful recovery and proliferation	A T25 culture flask containing 4.7 x 10^6 viable cells typically reaches a total cell count of approximately 14.3 x 10^6 viable cells within 3 days.
Growth Properties	Observation of cell culture behaviour to determine if cells are adherent, suspension, or semi-adherent	Cells exhibit expected growth properties consistent with the cell line's characteristics	Suspension
Sterility Testing	Direct inoculation onto 8 aerobic culture media for bacteria and fungi, incubated for 10 days. Any growth is identified by MALDI-TOF MS.	No bacterial or fungal growth after 10 days of incubation	Sterility confirmed
Mycoplasma Testing	PCR-based detection assay with specific primers targeting Mycoplasma DNA	No detectable Mycoplasma contamination confirmed by PCR	Pass
STR Profiling	Multiplex PCR of species-specific STR loci with capillary electrophoresis, performed by IDEXX BioAnalytics	≥ 80 % match to the reference STR profile	Identity confirmed
Species-specific pathogen testing	PCR panel for species-specific pathogens, performed by IDEXX BioAnalytics	All tested agents negative	Pass

AUTHENTICATION — STR PROFILING

Marker	Alleles
Hamster_19	229
Hamster_11	107, 115
Hamster_05	161
Hamster_03	246, 252
Hamster_15	124
Hamster_17	176, 182
Hamster_20	251
Hamster_08	196
Hamster_16	250
Identity match	94.4%

SPECIES-SPECIFIC PATHOGEN TESTING

Pathogen	Result
Hantaan	-
Hamster Parvovirus	-
LCMV	-
Mycoplasma pulmonis	-
MVM	-
KRV	-
H1	-
PVM	-
REO3	-
Sendai	-
TMEV	-
Mycoplasma sp.	-
Bacterial growth	-
Fungal growth	-

Third-Party Certified Quality Assurance

Since 2023, IDEXX has conducted STR profiling, species-specific pathogen testing, and species contamination analysis to ensure the authenticity, purity, and safety of our cell lines.

The information provided is believed to be accurate, but both the information and product are offered without warranty for any applications beyond those specified. This certificate confirms that the material has been tested and is pure to the best of our knowledge.

This product is intended solely for laboratory research use and is not for use in humans, animals, or diagnostics. Proper Biosafety Level practices are required.

Cytion products may not be resold, modified for resale, or used commercially without prior written consent from Cytion.

Manufactured in Germany under our ISO 9001:2015 certified Quality Management System, ensuring high standards of quality and reliability.

Qualified personnel have validated the test results of this Certificate of Analysis and attest with their signature that the tests were conducted as reflected in the results presented here.

F. Münster 18.11.2026

Authorised signature & date

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