Certificate of Analysis

Ensuring Integrity in Every Cell Line

Product	NRK	**Passage Number**	3
Species	Rat	**Cell Count per mL**	3.0 million
Cytion™ Number	305195	**Volume per ampule**	1.5
Lot Number	305195-090223	**Freeze Date**	09.02.2023
Product Format	cryovial	**Freeze Medium**	Freeze medium containing FBS
Storage Conditions	Below -150°C	**Expiration Date**	Not applicable

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[1] identity
2. **Virus Testing:** For species-specific[2] 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.

1: Human, Mouse, Rat, Hamster and Canine Species.
2: Human, Mouse, Rat, Hamster, Bovine, and Porcine Species.

Test Overview	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	89.7%
Recovery	Culture in the appropriate growth medium, microscopic evaluation	> 80% confluence within the expected recovery period	A T25 culture flask seeded at a density of 4 x 10^4 viable cells per cm^2 typically reaches approximately 100% confluence within 1 day.
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	Adherent
Sterility Testing	Visual inspection	Absence of microbial growth (bacterial, fungal, or yeast)	Pass
Mycoplasma Testing	PCR-based detection assay with specific primers targeting Mycoplasma DNA	No detectable Mycoplasma contamination confirmed by PCR	Pass

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	Marker	Alleles
Authentication	Rat_D1Wox31	96, 100
	Rat_D2Wox37	150, 156
	Rat_D19Wox11	220
	Rat_D10Wox8	266, 270
	Rat_D4Wox7	157
	Rat_D2Wox27	211, 215
	Rat_D5Rat33	116, 136
	Rat_D10Wox11	156
	Rat_D1Wox23	210, 214
	Rat_D12Wox1	402, 406
	Rat_D6Wox2	104, 124
	Rat_D8Wox7	185
	Rat_D6Cebr1	221
	SRY	X, Y
	Identity match	85,7%

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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.

IDEXX BioAnalytics

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.

Dr. R. Steubing
ID: 38D2AB05-037E-4413-AB78-70113DC1C716
Reason: Approved <r.steubing@cytion.com>
July 17, 2025 12:45 PM CEST

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

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