Certificate of Analysis

Ensuring Integrity in Every Cell Line

Product	ND7/23	**Passage Number**	5
Species	Mouse-Rat-Hybrid	**Cell Count per mL**	2.0 million
Cytion™ Number	305520	**Volume per ampule**	1.5
Lot Number	305520-100426	**Freeze Date**	10.04.2026
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	97.2%
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 5.2 x 10^4 viable cells per cm^2 typically reaches approximately 100% confluence within 2 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	Adherent
Sterility Testing	Direct inoculation on 8 media, 10-day incubation; microbial ID by MALDI-TOF MS ± anaerobic culture	No aerobic microbial growth (anaerobic if test was performed)	Sterility confirmed
Mycoplasma Testing	PCR-based detection assay with specific primers targeting Mycoplasma DNA	No detectable Mycoplasma contamination confirmed by PCR	Pass

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	Species	Status
Interspecies Contamination Testing	Mouse	-
	Rat	+
	Human	-
	Chinese hamster	-
	African green monkey	-

	Marker	Alleles
Authentication	1	96
	13	121
	15	244
	16	249, 253
	19	176, 178
	2	127, 129
	24	249, 251
	26	162, 164
	3	183
	30	186
	34	185, 189
	35	203
	36	228
	4	252
	42	156
	55	205
	59	178
	61	110
	62	154
	67	163, 165
	69	145
	70	158
	73	213

Document ID: FADD18326187648CD02C2560C07AF28F

	Marker	Alleles
Authentication	75	144
	78	149
	79	172
	8	238
	81	128
	90	161, 163
	91	221
	96	210
	Identity match	unique profile

	Pathogen	Result
Species-Specific Pathogen Testing	LCMV	-
	Mycoplasma pulmonis	-
	KRV	-
	RMV	-
	RPV	-
	H1	-
	PVM	-
	rCMV	-
	RCV/SDAV	-
	Sendai	-

	Pathogen	Result
Post-production sterility and mycoplasma testing	Bacterial growth	-
	Fungal growth	-
	Mycoplasma sp.	-

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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. Rosemarie Steubing

ID: EA6E0EE4-1528-4891-BA0A-78142884848A
Reason: Approved <r.steubing@cytion.com>
July 13, 2026 04:16 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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