

Certificate of Analysis



Ensuring Integrity in Every Cell Line

Product	BRL-3A	Passage Number	3
Species	Rat	Cell Count per mL	2.0 million
Cytion™ Number	500129	Volume per ampule	1.5
Lot Number	500129-141025	Freeze Date	14.10.2025
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 line¹ identity
2. **Virus Testing:** For species-specific² 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	94.0%
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 5.4×10^4 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

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

Authentication	Marker	Alleles
	1	104
	13	121
	15	244
	16	251
	19	172
	2	126, 127
	24	249
	26	164, 166
	3	162
	30	188
	34	188
	35	203
	36	263
	4	238, 242
	42	156
	55	218
	59	145
	61	128
	62	154
67	154	
69	138, 141	
70	175	
73	213	

Authentication	Marker	Alleles
	75	144
	78	151
	79	177, 179
	8	236
	81	129
	90	174, 176
	91	219
	96	210
	Identity match	Unique Profile

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

Post-production sterility and mycoplasma testing	Pathogen	Result
	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. R. Steubing

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Reason: Approved <r.steubing@cytion.com>
November 28, 2025 01:57 PM CET

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.