

# Certificate of Analysis

## Ensuring Integrity in Every Cell Line



Product	RBL-2H3	Passage Number	1
Species	Rat	Cell Count per mL	2.0 million
Cytion™ Number	305194	Volume per ampule	1.5
Lot Number	305194-041022	Freeze Date	04.10.2022
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<sup>1</sup> identity
2. **Virus Testing:** For species-specific<sup>2</sup> 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
<b>Post-Freeze Viability</b>	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	76.8%
<b>Recovery</b>	Culture in the appropriate growth medium, microscopic evaluation	> 80% confluence within the expected recovery period	A T25 culture flask seeded at a density of $3.7 \times 10^4$ viable cells per cm <sup>2</sup> typically reaches approximately 100% confluence within 4 days.
<b>Growth Properties</b>	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
<b>Sterility Testing</b>	Visual inspection	Absence of microbial growth (bacterial, fungal, or yeast)	Pass
<b>Mycoplasma Testing</b>	PCR-based detection assay with specific primers targeting Mycoplasma DNA	No detectable Mycoplasma contamination confirmed by PCR	Pass

Authentication	Marker	Alleles
	Rat_D1Wox31	104
	Rat_D2Wox37	144
	Rat_D19Wox11	228, 232
	Rat_D10Wox8	266
	Rat_D4Wox7	145
	Rat_D2Wox27	207, 233
	Rat_D5Rat33	124, 128, 130
	Rat_D10Wox11	165
	Rat_D1Wox23	210, 226
	Rat_D12Wox1	402
	Rat_D6Wox2	128, 132
	Rat_D8Wox7	182
	Rat_D6Cebr1	235, 241
	SRY	X, Y
	Identity match	Unique profile

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

### 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: 784AB176-2B92-42C0-80CD-AC9869C0A314  
Reason: Approved <r.steubing@cytion.com>  
April 09, 2025 11:02 AM 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.