

Certificate of Analysis



Ensuring Integrity in Every Cell Line

Product	AR42J	Passage Number	38
Species	Rat	Cell Count per mL	2.0 million
Cytion™ Number	500478	Volume per ampule	1.5
Lot Number	500478-913	Freeze Date	30.04.2013
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	71.0%
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 5.7×10^4 viable cells per cm^2 typically reaches approximately 90% confluence within 4 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	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

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

Authentication	Marker	Alleles
	1	96, 105
	13	121, 123, 135
	15	232, 244
	16	253, 260
	19	184, 186
	2	121, 128
	24	253, 258
	26	146, 148
	3	162
	30	194
	34	182, 186, 189
	35	197, 199
	36	222
	4	260
	42	144
	55	212, 220
	59	177, 178
	61	128
	62	166
67	152	
69	139	
70	185, 187	
73	194, 204	

Authentication	Marker	Alleles
	75	184
	78	153
	79	172, 179
	8	242, 244
	81	130, 132
	90	171
	91	205
	96	240
	Identity match	Unique profile

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

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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>
April 09, 2025 01:51 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.