

Certificate of Analysis

Ensuring Integrity in Every Cell Line



Product	CERV-186	Passage Number	13
Species	Human	Cell Count per mL	3.0 million
Cytion™ Number	300290	Volume per ampule	1.5
Lot Number	300290-515SF	Freeze Date	16.11.2015
Product Format	cryovial	Freeze Medium	Serum-free freeze medium
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	90.9%
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 2.0×10^4 viable cells per cm ² typically reaches approximately 100% confluence within 7 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

Authentication	Marker	Alleles
	AMEL	X
	CSF1PO	9, 11
	D13S317	12
	D16S539	13
	D18S51	16
	D21S11	29, 30
	D3S1358	15, 18
	D5S818	11, 12
	D7S820	8, 12
	D8S1179	14
	FGA	19, 20
	Penta_D	10, 12
	Penta_E	5, 7
	TH01	6
	TPOX	8, 11
	vWA	14, 17
	Identity match	100%

Species-Specific Pathogen Testing	Pathogen	Result
	Hepatitis A	-
	Hepatitis B	-
	Hepatitis C	-
	HIV1	-
	HIV2	-
	HTLV 1	-
	HTLV 2	-
	EBV	-
	Pathogen	HPV16 (positive)

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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.

J. Steubing

ID: FE6BC612-5B1F-467D-8A72-5563B52E0675
Reason: Approved <j.steubing@cytion.com>
April 06, 2025 08:14 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.