Certificate of Analysis

Ensuring Integrity in Every Cell Line

Product	MDA-MB-468	**Passage Number**	3
Human	Human	**Cell count per mL**	2.0 million
Cytion™ Number	300279	**Volume per ampule**	1.5
Lot Number	2741938816	**Freeze Date**	21.10.2026
Product Format	cryovial	**Freeze medium**	Freeze medium containing FBS
Storage Conditions	Below -150°C	**Expiration Date**	Not applicable
Identity match	100%		

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 identity.
2. Virus Testing: For species-specific 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.

TEST OVERVIEW

Test	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	97.5%
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 5.6 x 10^4 viable cells per cm^2 typically reaches approximately 90% confluence within 3 days.
Growth Properties	Observation of cell culture behaviour to determine if cells are adherent, suspension, or adherent/suspension	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	No bacterial or fungal growth after 10 days of incubation	Sterility confirmed
Mycoplasma Testing	PCR-based detection assay with specific primers targeting Mycoplasma DNA	No detectable Mycoplasma contamination confirmed by PCR	Pass
STR Profiling	Multiplex PCR of species-specific STR loci with capillary electrophoresis	≥ 80 % match to the reference STR profile	Identity confirmed
Interspecies contamination testing	Species-specific PCR panel	DNA of the expected species only, no foreign species detected	Pass
Species-specific pathogen testing	PCR panel for species-specific pathogens	All tested agents negative	Pass

AUTHENTICATION — INTERSPECIES CONTAMINATION TESTING

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

AUTHENTICATION — STR PROFILING

Marker	Alleles
AMEL	X
CSF1PO	12
D13S317	12
D16S539	9
D18S51	17
D21S11	27, 28
D3S1358	15
D5S818	12
D7S820	8
D8S1179	13
FGA	23
Penta_D	8, 10
Penta_E	5
TH01	7
TPOX	8, 9
vWA	18
Identity match	100%

SPECIES-SPECIFIC PATHOGEN TESTING

Pathogen	Result
Hepatitis A	-
Hepatitis B	-
Hepatitis C	-
HIV1	-
HIV2	-
HTLV 1	-
HTLV 2	-
Mycoplasma sp.	-
Bacterial growth	-
Fungal growth	-

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.

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.

Qualified personnel have validated the test results of this Certificate of Analysis and attest with their signature that the tests were conducted as reflected in the results presented here.



23.11.2026

Authorised signature & date

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

www.cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB