Certificate of Analysis

Ensuring Integrity in Every Cell Line

Product	HUVEC	**Passage Number**	2
Species	Human	**Cell Count per mL**	1.0 million
Cytion™ Number	300605	**Volume per ampule**	1.0 ml
Lot Number	300605-001-23-220223P2	**Freeze Date**	22.02.2023
Product Format	cryovial	**Freeze Medium**	Cryopreservation medium with DMSO
Storage Conditions	Below -150°C	**Expiration Date**	Not applicable
Source	Vein of Umbilical cord	**Donor Age**	24 years
Sex	female	**Donor Type**	Normal

At Cytion, we ensure the quality and reliability of our primary cell lines through rigorous testing, including:

1. **Virus Testing:** For species-specific[1] viruses where possible.
2. **Mycoplasma Testing:** To prevent contamination.
3. **Bacteria and Fungi Testing:** To ensure cells are free from microbial contaminants.

1: Human, Mouse, Rat, Hamster, Bovine, and Porcine Species.

TEST OVERVIEW

Test Overview	Methodology	Acceptance Criteria	Outcome
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	Sterility was assessed using microbiological methods suitable for cell culture products.	No aerobic microbial growth	Negative
Mycoplasma Testing	PCR-based detection assay with specific primers targeting Mycoplasma DNA	No detectable Mycoplasma contamination confirmed by PCR	Negative
Cell Type Identity	FACS analysis	$CD31^+$; $CD34^-$; $CD45^-$; $CD90^-$; $HLA\text{-}DR^-$	Pass

SPECIES-SPECIFIC PATHOGEN TESTING

Pathogen	Result
Hepatitis B	-
Hepatitis C	-
HIV1	-
HIV2	-

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 attested with their signature that the tests were conducted as reflected in the results presented here.

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Authorised signature & date

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