# Certificate of Analysis

## Ensuring Purity and Integrity in Every Cell Line

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|---|---|---|---|
| **Product** | Human Wharton Jelly of Umbilical Cord Mesenchymal Stem Cells | **Passage Number** | 1 |
| **Species** | Human | **Cell Count per mL** | 1 million |
| **Cytion™ Number** | 300685 | **Volume per ampule** | 1 mL |
| **Lot Number** | 300685-CB1833 | **Freeze Date** | 17.01.2018 |
| **Product Format** | cryovial | **Freeze Medium** | Cryopreservation medium with DMSO |
| **Storage Conditions** | Below -150°C | **Expiration Date** | Not applicable |
| **Source** | Umbilical Cord | **Donor Age** | Newborn |
| **Sex** | Female | **Donor Type** | -- |

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 | 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 |

| | Pathogen | Result |
|---|---|---|
| **Species-Specific Pathogen Testing** | 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.

Dr. Rosemarie Steubing

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.