



THE HASHEMITE KINGDOM OF
JORDAN

Accreditation Unit



Annex (1)
Updated on 25-03-2026

To The Accreditation Certificate No. **JAS Test - 141** Dated **22-05-2025**
for Analytical and QC Laboratory at the Cell Therapy Center – University of Jordan

Scope of Accreditation

In the Field of Physical and Microbiological Testing of Human stem cells and cell lines
containing samples

| Tested Parameter/ Type of Test/ Measured Quantity | Test Methods/ Standards |
|---|--|
| Cell Morphology | Expansion of Human Adult Stem Cells from Bone Marrow Stroma: Conditions that Maximize the Yields of Early Progenitors and Evaluate Their Quality; Sekiya 2009. -Microscopic evaluation of cell structure and forms of human stem cells using light microscopy techniques. |
| Cell Count and Viability | Counting using Countess™ Cell Counting Chamber Slides and Holder, disposable, rev.03.00, thermofisher Scientific - Determination of cell concentration and the proportion of live cells using Countess™ 3 Automated Cell Counter |
| Chondrogenesis Differentiation | StemPro™ Chondrogenesis Differentiation Kit (Gibco), publication number MAN0000696, Rev.2.00, thermofisher scientific - In vitro assessment of cells undergoing differentiation towards the chondrogenic lineage. |
| Adipogenesis Differentiation | StemPro™ Adipogenesis Differentiation Kit (Gibco), Publication Number MAN0000693 Rev.2.00, thermofisher scientific - In vitro assessment of cells undergoing differentiation towards the adipogenic lineage. |
| Osteogenesis Differentiation | StemPro™ Osteogenesis Differentiation Kit (Gibco), publication number MAN0000694, Rev.2.00, thermofisher scientific - In vitro assessment of cells undergoing differentiation towards the osteogenic lineage. |



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| Immunophenotyping by Flow Cytometry | BD Stemflow™ Human MSC Analysis Kit (562245, Rev 4.0) BD Bioscience - Identification and quantification of specific cell surface markers on human multipotent mesenchymal stromal cells (hMSCs) . |
|---|---|
| Tested Parameter/ Type of Test/ Measured Quantity | Test Methods/ Standards |
| Karyotyping and Cytogenetics | ISCN An International System for Human Cytogenomic Nomenclature (2020) - Determination of chromosome number and structure using G-banding. |
| Automated Growth-Based Sterility Testing | BACT/ALERT® Culture Media Bottles, used in conjunction with the BACT/ALERT® 3D system, user manual (BioMérieux)2015. -Detection of microbial contamination |
| Sterility testing by direct inoculation | EUROPEAN PHARMACOPOEIA 6.0/ 2.6.1: Sterility |
| Bacterial identification | Bacterial Identification using VITEK® 2 COMPACT/VITEK® 2 ID & AST Cards (BioMérieux) |
| Endotoxin | Endosafe® nexgen-PTS™ Assay guide (Charles River Laboratories) – BET Using ENDOSAFE PTS -Endotoxin detection software version 10.2 |
| Mycoplasma Detection by NAT | Mycoseq™ Plus Mycoplasma Detection Kit / PrepSEQ™ 1 2 3 Nucleic Acid Extraction Kit. publication Number MAN0028695, Rev.B00, Thermo Fisher Scientific Biofire Film array 2.0 Mycoplasma v1.0 Panel test kit Cat#423306 |



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| | |
|--|---|
| Quantification of Human Cytokines | Quantification of human Interleukin 6 (IL-6) ,10 (IL-10) and Vascular Endothelial Growth Factor (VEGF) using the Quantikine ELISA human immunoassay kit. |
| Scanning Electron Microscopy (SEM) Imaging | In-house method MoA/QC/50 [Issue No.: (1); Date: 12/05/2024, Revision No.: (1); Date: 01/04/2024] - Microscopic examination and imaging of sample surfaces |

List of employees in the laboratory who are technically responsible for issuing the test reports in the scope of accreditation:

- 1- Dr. Hanan Jafar: Technical Manager
- 2- Diana Shahin: Quality Control Manager