Certificate of Analysis

Product	Human Mesenchymal Stem Cells - Adipose (HMSC-AD)
Passage Number	3
Cytion® Number	300645
Lot Number	300645-251022P3
Cell concentration; volume	1.0 million/vial
Date of manufacture	10/2022
Donor information	Normal male donor
Donor age	34 years old
Cell culture karyoptype	46,XY

The following test specifications have been met for this product lot:

Test description	Test Method	Test Specification	Result
Cell Viability post-thaw	Trypan Blue dye exclusion test, automated cell counter	>85-90% viable cells	Pass
Recommended cell plating density	Cell cultivation	1-3x10^3 cells/cm²	Pass
Morphology	Microscopic examination	Spindle-shaped, fibroblast-like for at least within 5 passages	Pass
Sterility	Bacterial and fungal contamination: inoculation and culture in blood agar, thioglycollate broth, trypticase soy broth and sabouraud dextrose agar plates	No microorganisms' growth observed	Pass
	Exogenous viruses and microorganisms contamination:	HBV, HCV, HSV1, HSV2, CMV, EBV, HHV6, Toxoplasma gondii, Treponema pallidum, Chlamydia trachomatis, Ureaplasma urealyticum, Ureaplasma parvum, all negative	Pass
Mycoplasma	Mycoplasma specific PCR	Negative	Pass
Donor infectious screening results; plasma	PCR	HBV	Pass
	PCR	HCV	
	IFA	HIV-1/2	
	PCR	Treponema pallidum	
		all negative	

CLS Cell Lines Service GmbH - Dr.-Eckener-Str. 8, 69214 Eppelheim, Germany
Tel +49(0)6221 405780 | info@cytion.com | www.cytion.com

Cell type identity	FACS analysis	$CD73^+$, $CD90^+$, $CD105^+$ $CD14^-$, $CD34^-$, $CD45^-$, $HLA\text{-}DR^-$ and combinations $CD45^-CD34^-$; $CD90^+73^+$; $CD90^+73^+105^+$; CD90hi73^-; CD90hi105^-; $CD90^-$low73^+; $CD90^-$/low105^+	Pass
Multilineage differentiation capability	Differentiation media	Alizarin Red S positive Oil Red O positive	Pass

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