Cells Lab DOKAR Tel.: +7 (985) 531-35-96, E-mail: info@cells-lab.ru

PRODUCT CERTIFICATE 2412018

ZEN CELLS

Manufactured: **Cells Lab Dokar**
Product: **CONDITIONED MEDIUM from allogenic Bone marrow multipotent mesenchymal stem cells cultivation**
Prepared for **ZEN CELLS**
Use for **IV & LOCAL INJECTIONS**

1. Product characteristics:

Source material	multipotent mesenchymal stromal cells from human bone marrow
Package	**6 bottles for 500 ml**
Microbiological test	**sterile**

2. Infection safety:

Item	Reference value	Result
Bacteria	Not found	Not found
Fungi	Not found	Not found
Hepatitis B DNA in cells	Not found	Not found
Hepatitis C RNA in cells	Not found	Not found
Type I HIV provirus DNA in cells	Not found	Not found
Type II HIV provirus DNA in cells	Not found	Not found
Type I Herpes DNA in cells	Not found	Not found
Type II Herpes DNA in cells	Not found	Not found
CMV DNA	Not found	Not found
Mycoplasma DNA	Not found	Not found

3. Storage of this product:
- Room temperature (< 27 C°) - 7 days
- In the refrigerator – 6 month.
- In the freezer – 12 month.

It is necessary to be thawed and warmed to room temperature before use.

Date of manufactured: 06 Dec 2024

Senior laboratory assistant **V.Morkovnikov**

Российская Академия Наук Для документов Биотехнологическая лаборатория ММУ Институт молекулярной биологии имени В.А.Энгельгардта

Dokar Vita Cells long life active

Cells Lab DOKAR Tel.: +7 (985) 531-35-96, E-mail: info@cells-lab.ru

PRODUCT CERTIFICATE 24122018

ZEN CELLS

Manufactured: **Cells Lab Dokar**
Prepared for: **DOKAR VITA CELLS**
Product: **CONDITIONED MEDIUM from allogenic Bone marrow multipotent mesenchymal stem cells cultivation**
Prepared for **ZEN CELLS**
Use for **IV & LOCAL INJECTIONS**

4. Growth Factors (pg/ml):

IGFBP-4	IGFBP-3	TIMP-1	TIMP-2	IGFBP-2	IGFBP-6	RANTES	TGFb1	MCF R	ICAM-1	VEGF R3
54 307	46 559	39 122	31 343	22 755	21 319	14 066	9 755	6 395	4 787	4 521
PDGF-BB	IL-6	TNF RI	PDGF-AA	EGF R	IGF-I	FGF-4	MCP-1	SCF R	VEGF	BMP-5
3 155	3 028	2 783	2 111	1 979	1 864	1 789	1 556	1 461	1 355	1 052
IL-11	IL-6sR	BMP-7	IL-8	IGFBP-1	FGF-7	HGF	VEGF-D	GH	VEGF R2	NT-4
922	854	679	523	380	363	361	305	294	287	262
GDF-15	OPG	NT-3	MIP-1d	BMP-4	MIP-1b	EG-VEGF	TGFb3	AR	SCF	b-NGF
244	234	225	190	177	160	153	96	76	75	52
Eotaxin-2	NGF R	BDNF	IL-16	PIGF	IL-15	GDNF	MIP-1a	TGFa	bFGF	IL-5
51	35	27	26	26	18	17	13	10	5	4
IL-1a	IL-7	IL-12p70	I-309	EGF	IL-1b	Eotaxin	HB-EGF	MCSF	GM-CSF	BLC
4	3	2	2	1	1	0	0	0	0	0
G-CSF	IL-10	IFNg	IL-1ra	IL-2	IL-4	IL-12p40	IL-13	IL-17	MIG	TNFa
0	0	0	0	0	0	0	0	0	0	0

5. Exosomes

Total Number Concentration (particles/ml)	$3{,}01 * 10^{12}$
Size of particles (nm)	63,7

Date of manufactured: 06 Dec 2024

Senior laboratory assistant **V.Morkovnikov**

Российская Академия наук * Институт молекулярной биологии имени В.А.Энгельгардта * Для документов Биотехнологическая лаборатория ИМБ

Dokar Vita Cells long life active