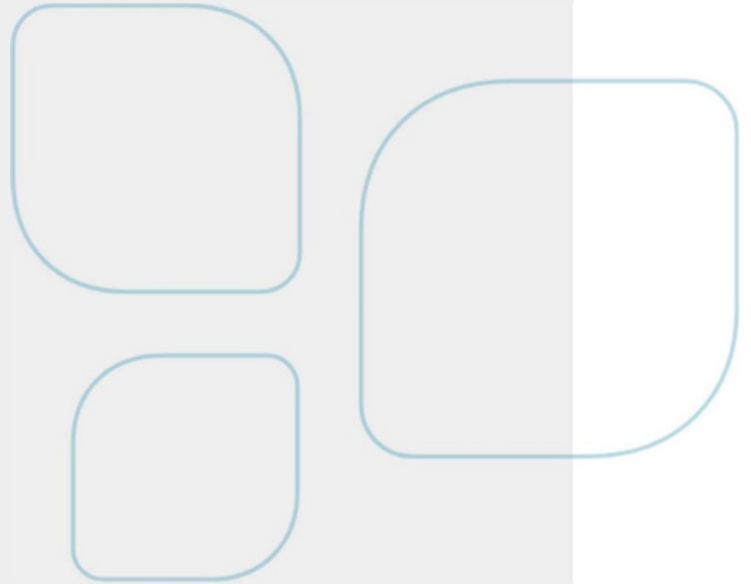




Extracellular Vesicles from Mesenchymal Stem Cells

Catalogue (Status 07/2026)

Introduction

Extracellular Vesicle preparations from the following cell lines are readily available:

Code	Tissue Source	GMP ready
ASC/TERT300	Adipose tissue	Yes
BM-MSC/TERT292	Bone marrow	Yes
WJ-MSC/TERT273	Wharton 's Jelly	Yes
P-MSC/TERT308	Amniotic Membrane	Yes
CP-MSC/TERT308	Chorionic Plate	Yes

Extracellular Vesicles from Mesenchymal Stem Cells (MSC) derived from selected tissues display different biological functionalities as tested in cell-based bioassays and in vitro/in vivo disease models. Telomerized MSC (MSC/TERT) preserve the biological functionalities of the respective primary cell over extended cultivation time and population doublings. This innovation – in combination with a patented manufacturing setup - opens the possibility for consistent supplies of defined EV products for pre-clinical, clinical and commercial use (EVscale™). Below you will find a selection of MSC/TERT-EV Phoenestra can routinely supply. Some key attributes are shown, more attributes and data are available upon request. The analytical panel as well as the EV amounts and aliquot sizes can be customized to your needs. EV preparations come sterile-filtered and tested for sterility and endotoxin if required.

Analytical readouts and specifications

EV from ASC/TERT are collected from EVscale™ perfusion culture harvests. The harvest aliquots are concentrated and washed by Tangential Flow Filtration (TFF), the available EV preparations have the following specifications and readouts:

Feature	Method	Range / Readout
Total EV	NTA	10 ⁹ to 10 ¹³ range, in customizable aliquot sizes
EV Concentration	NTA	1 x 10 ¹⁰ – 1 x 10 ¹¹ EV/mL
Protein-to-Particle Ratio	BCA and NTA	in mg protein per 1 x 10 ¹⁰ EV
EV marker proteins	NanoFCM	CD9, CD63, CD81 and/or other markers (in % of EV population)

Relative Biological Activity*	Anti-inflammatory Assay (AI)	in % of positive control (Dexamethasone)
Relative Biological Activity**	Anti-fibrotic Assay (AF)	in % of positive control (PP2)
miRNA pattern***	RNAseq	Qualitative and quantitative miRNA profile

*in collaboration with Evercyte GmbH. Assay principle: Mouse macrophages or microglia triggered with Lipopolysaccharide (LPS), quantitation of response by NO secretion; positive control: Dexamethasone; www.evercyte.com

** in collaboration with Evercyte GmbH. Assay principle: TGF- β triggered fibroblasts express α -SMA as a marker of fibrosis induction; positive control: src kinase inhibitor PP2; www.evercyte.com

*** in collaboration with TAmiRNA GmbH, a specialist in RNA profiling and -omics techniques in general; www.tamirna.com

Further analyses and services are available upon request.