

## Product-Data-Sheet for extracellular vesicles from BM-MSC/TERT292

August 2024

Evercyte Ord. No.:	EV-063-0292
Designation:	EVs from BM-MSC/TERT292
Description:	EVs are produced by telomerized bone marrow mesenchymal stromal cells and are collected from EVscale™ perfusion culture harvests. The harvest aliquots are concentrated and washed by Tangential Flow Filtration (TFF)
Biosafety Level:	1
Shipped:	Frozen on dry ice
Particle numbers:	Upon request
EV cell factory:	BM-MSC/TERT292 (Evercyte, Cat# CHT-063-0292), BSL1 The cells have been tested negative for HIV, HepA, HepB, HepC and Parvo-B-19, do not show bacterial (incl. mycoplasma contaminations) and fungal contaminations and are authentic as demonstrated by STR profiling. Moreover, the cells express typical marker proteins of mesenchymal stem cells and can be differentiated towards adipocytes, chondrocytes and osteoblasts
EV production system:	EVs are collected from EVscale™ perfusion culture harvests
EV enrichment:	EVs are concentrated and washed by Tangential Flow Filtration (TFF)
Characteristics:	The available EV preparations have the following specifications: <ul style="list-style-type: none"><li>- Particle concentration (NTA or NanoFCM): 1E10-1E11 p/ml</li><li>- Protein-to-particle ratio (BCA assay and NTA): mg of protein/1E10 particles</li><li>- Relative biological activity: anti-inflammatory and anti-fibrotic assays</li><li>- miRNA pattern (RNAseq): qualitative and quantitative miRNA profile</li></ul> Detailed EV characteristics are specific to the production lot and are provided upon request/purchase.
Thawing and storage:	Upon arrival immediately transfer the product to -80°C. Store the product at -80°C for up to 6 months. Thaw the sample on ice, shortly spin before opening the tube to ensure that the solution is collected at the bottom of the tube and mix carefully by pipetting up and down. In order to avoid multiple freeze / thaw cycles aliquot the solution and store aliquots at -80°C until use. After thawing, store the EVs at 4°C for a maximum of 1 day.

Please Note:

The classification of biosafety level is based on Austrian Legislation (Gentechnikbuch; Systemverordnung) and on recommendations of the Central Committee on Biological Safety (ZKBS). While Evercyte undertakes all reasonable measures to test for absence of a selected panel of known human pathogenic viruses, there is currently no test procedure available that guarantees for complete absence of infectious pathogens. The use of state-of-the art infectious virus assays or viral antigen assays may leave open the possible existence of a latent viral genome, even if a negative test result is obtained. Therefore, we recommend that all human cell lines should be handled with caution such as an organism of ACDP Hazard Group 2. People who work with our cells must follow national regulations and safety precautions. The laboratories must be equipped with a security level according to the classification of the cells / products. Evercyte assumes no liability whatsoever in connection with the receipt, handling or the consequences of improper use of our products.

Notices and disclaimers: Evercyte products are intended for laboratory research purposes only. They are not intended for use in humans.

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