

## Product-Data-Sheet for extracellular vesicles from WJ-MSC/TERT273 cells

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For questions please contact [office@evercyte.com](mailto:office@evercyte.com)

Evercyte Cat. No	EV-059-0273
Designation	EVs from WJ-MSC/TERT273
Description	EVs are produced from telomerized Wharton´s Jelly derived mesenchymal stem cells grown in a hollow fiber bioreactor, followed by purification with tangential flow filtration (TFF). The whole production and purification processes are done in a sterile environment.
Particle numbers	1 x 10 <sup>9</sup> in 100 µl buffer EV-059-0273-A1 5 x 10 <sup>9</sup> in 50 µl buffer EV-059-0273-A2
Biosafety Level	1
Shipped	Frozen on dry ice
Storage medium	20 mM HEPES
Cell factory	WJ-MSC/TERT273 (Cat# CHT-059-0273), BSL1 The cells have been tested negative for HIV, HepA, HepB, HepC and Parvo-B-19, do not show bacterial (incl. mycoplasma contaminations), fungal contaminations and are authentic as demonstrated by STR profiling.
Production system	Produced using hollow fiber bioreactor in Mesencult™-ACF Plus medium (STEMCELL TECHNOLOGIES, Cat#05448)
Purification	Tangential flow filtration with mPES mit 300 kD in a sterile environment
Characteristics	The particles have an average size of 100 – 200 nm (NTA measurement), show the typical EV morphology with lipid double layer membrane (cryoTEM) and the presence of syntenin and CD81, absence of calnexin (western blot). Additionally, EVs show anti-inflammatory, neo-angiogenic and fibroblast growth promoting properties as demonstrated using in vitro bioassays. 1 x 10 <sup>9</sup> particles correspond to 400 µg protein (BCA assay).
Thawing and storage	Upon arrival immediately transfer the product to -80°C. Store product at -80°C (for up to 6 months) until use.  Thaw the EVs on ice, centrifuge before opening the tube to ensure that the solution is collected at the bottom of the tube.

	<p>Then, mix carefully by pipetting up and down and aliquot for further use to avoid multiple freeze thaw cycles. Store the aliquots at -80°C until use.</p> <p>After thawing, store the EVs at 4°C for a maximum of 1 day.</p>
Quality control testing	<p>EVs are negative for Mycoplasma contaminations as tested using MycoAlert™ Mycoplasma Detection Kit from Lonza.</p> <p>EVs are negative for bacterial and fungal contaminations as tested according to Ph. Eur. 2.6.1. / USP &lt;71&gt;.</p> <p>The Endotoxin level is below 0,01 EU/ml as tested using LAL test according to Ph.ph.2.6.14/USP &lt;85&gt;.</p>

Please Note:

The classification of biosafety level is based on the directive 2000/54/EG of the European Parliament and of the Council on the protection of workers from risks related to exposure to biological agents at work. While Evercyte undertakes all reasonable measures to test the cell factory 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 and products thereof should be handled with caution such as an organism of ACDP Hazard Group 2.

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