GENAXXON bioscience

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UCMSC Exosome HY Medium exosome high yield medium

Component	Cat# C4162.0500	Colour code of cap
UCMSC Exosome HY Medium exosome high yield medium with 4.5g/L D-Glucose, with 4.0mM L-Glutamine, with 25mM HEPES, with Phenol red	500mL	**white**

Overview:

The UCMSC Exosome HY Medium is a specially designed serum-free and ready-to-use culture medium for the isolation and cultivation of exosomes from umbilical cord-derived mesenchymal stem cells (UCMSC). This medium promotes efficient exosome production and ensures optimal conditions for their collection and application in research and therapy.

Product Details:

Formulation: Specifically tailored for the cultivation of umbilical cord-derived mesenchymal stem cell and the isolation of exosomes. No need to add common nutritional supplements such as serum or human platelet lysate; however, users can decide to add nutritional supplements based on actual needs.
Components: Contains all necessary nutrients, growth factors, and supplements to ensure healthy cell growth and high exosome production.
Composition: with 4.5g/L D-Glucose, with 4.0mM L-Glutamine, with 25mM HEPES, with Phenol red.
Application: Ideal for research applications, including cell communication studies, regenerative medicine, and therapeutic developments.
Compatibility: Works excellently with standard cell culture protocols and equipment.
Stability: After production the medium is stable for 2 years if stored at +2°C to +8°C.

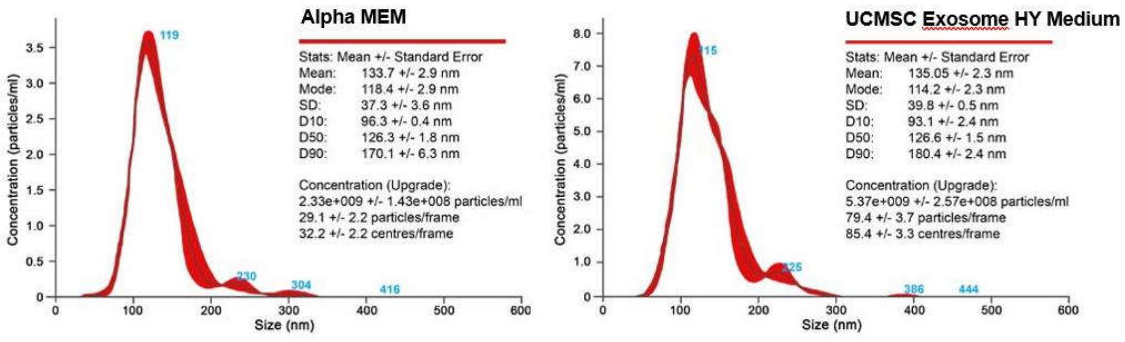
Benefits:

Efficient Exosome Production: Optimized formulation promotes high exosome yield.
Quality and Consistency: Consistent results through standardized ingredients and production.

Application:

For exosome production, we recommend culturing UCMSCs in dishes or flasks under regular culture conditions up to 90% confluence. Then remove the original culture medium and wash the cells with PBS and Exosome HY medium to remove residues of the original medium. Then the cells are cultured in Exosome HY medium for 3-4 days before the conditioned medium can be used for exosome isolation.

Picture 1: Nanoparticle Tracking Analysis: Size verification



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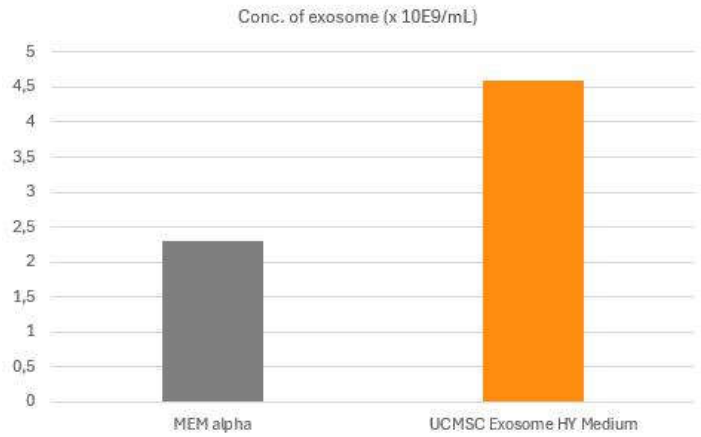
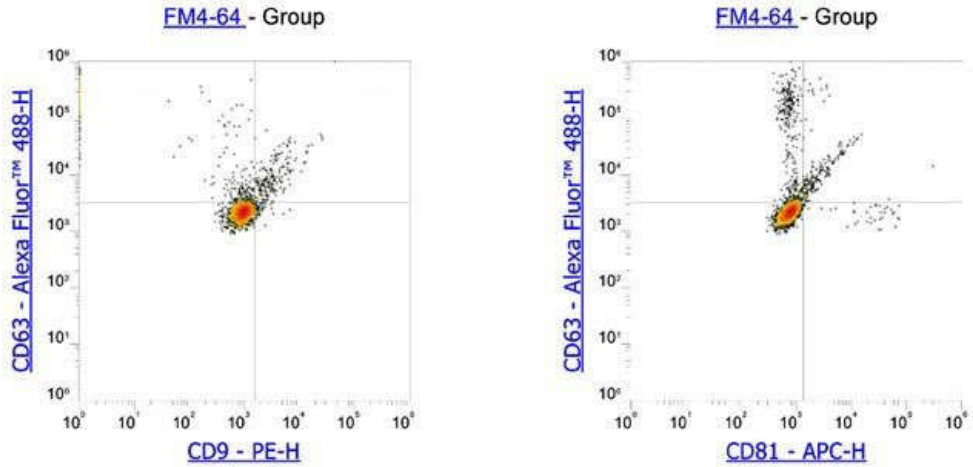
Picture 2: Yield comparison between standard cell culture media and UCMSC Exosome HY Medium



Picture 3: Flow Cytometry - Verification of CD9, CD63, CD81 surface marker



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