Method for producing an exosome containing therapeutic agent

Abstract

Disclosed herein is a method for producing an exosome containing therapeutic agent, comprising the steps:

- Separating mononuclear cells from a bone marrow sample of a healthy donor;
- Treating the separated mononuclear cells in a culture media at 37 °C and at 5% CO_2 for 48-72 h;
- Separating an exosome composition from the culture media;
- Dissolving the separated exosome composition in a phosphate buffer to obtain the exosome containing therapeutic agent.

The culture media comprises a 1:1 mixture of DMEM/F12 and HEPES, 2 mmol/mL or 3.65 mg/10mL L-glutamine, 100 units/mL penicillin, 100 μg/mL streptomycin, 10% fetale bovine serum.

No Figure