# SEMI-SOLID OSTEOBLAST COMPOSITION CONTAINING FIBRIN FOR BONE UNION AND METHOD PREPARING THE SAME


## Abstract

Provided are a semi-solid osteoblast composition containing fibrin for bone union and a method for preparing the same. The method comprises isolating osteoblasts from a bone tissue and culturing/proliferating the isolated osteoblasts in DMEM (Dulbecco's Modified Eagle's Medium) or &agr; -MEM Minimum Essential Medium, Alpha Modification) to prepare an osteoblast suspension; and mixing the resulting osteoblast suspension with an coagulation factor to prepare an osteoblast therapeutic agent. In accordance with the present invention having the above-mentioned construction, it is possible to achieve bone grafting capable of performing bone union having no clinical graft rejection and uniform distribution of osteoblasts via injection of an osteoblasts and fibrin mixture into affected parts for bone union, and effective and rapid bone union via constant injection of a semi-solid osteoblast composition into affected parts.

(Figure 3)