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(54) **THREE-DIMENSIONAL STRUCTURES BASED ON HYDROXYAPATITE AND POLYURETHANE DIOL OBTAINED THROUGH 3D PRINTING TECHNOLOGY**

(57) The invention relates to 3D structures made by the 3D printing method, with the 3D BioScaffolder equipment at room temperature, having the shape of a cube with 2 cm side.

The 3D structures of the present invention are obtained from: hybrid powder based on hydroxyapatite and

polyurethane diol synthesized by the hydrothermal process at a pressure $p = 1000$ bar and temperature $t = 100$ °C, in a weight ratio of 4: 1, in the form of spherical particles having a diameter of 0.5-8 μm ; Mowiflex solution 20% and Baymedix FD 103 solution 57%.

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