WHAT IS CLAIMED IS:

1. A composition for tissue repair treatment, comprising a copolymer in which a hydrophobic biocompatible polymer and a hydrophilic biocompatible polymer are polymerized, the composition is a colloidal solution having a colloidal phase in which the copolymer is dispersed in water,

wherein the colloidal solution has no change or an increase in turbidity when water is added and

wherein the colloidal phase is prepared by adding the copolymer to water, followed by heating to a temperature between a melting point of the copolymer and a boiling point of the water,

wherein the composition has a range of K factor represented by equation 1 is 0.4-1.5:

<Equation 1>

$$K=(m_{100}*M_h^2*10)/(M_l*HLB^2)$$

where m_{100} is the number of moles of polymers in 100 g of an aqueous solution, M_h is the number average molecular weight (Mn) of a hydrophilic part, M_l is the number average molecular weight (Mn) of a hydrophobic part, and HLB is represented by the following equation 2,

<Equation 2>

$$HLB=20*M_h/M$$

where M_h is the number average molecular weight (Mn) of the hydrophilic part, and M is the total number average molecular weight (Mn),

wherein the value of HLB is 2.5-10 in the equation 2,

wherein the hydrophobic biocompatible polymer is at least any one

polymer selected from the group consisting of polyglycolic acid, polycaprolactone, poly lactic acid, polydioxanone, poly(trimethylene carbonate), polyhydroxybutyrate, and a copolymer including the same,

wherein the hydrophilic biocompatible polymer is at least any one polymer selected from the group consisting of methoxy polyethylene glycol, dihydroxy polyethylene glycol, mono-alkoxy polyethylene glycol, and polyethylene glycol,

wherein the hydrophilic biocompatible polymer is 1,000-10,000 g/mol,

wherein the hydrophobic biocompatible polymer has a molecular weight of 2,000-25,000 g/mol,

wherein the copolymer has a molecular weight of 3,000-35,000 g/mol,

wherein the concentration of the copolymer in a colloidal solution is 15-45 wt%.

2. The composition for tissue repair treatment of claim 1, wherein the copolymer has a bonding structure comprising a structure of formula 1, formula 2, or formula 3:

[Formula 1]

X-Y

[Formula 2]

Y-X-Y

[Formula 3]

X-Y-X

where X is the hydrophilic biocompatible polymer, and Y is the hydrophobic biocompatible polymer.