Claims

1. A two component-gelation system, wherein said gelation system is formed from:
    a. a first component (solution 1) comprising or consisting of FGF-18, alginate, collagen and a sugar as stabilizing agent, and
    b. a second component (solution 2) comprising or consisting of a dicationic salt.
2. A method for producing a homogeneous hydrogel, comprising the steps of:
    a. preparing a first homogeneous solution comprising or consisting of FGF-18, alginate, collagen and a sugar as stabilizing agent,
    b. preparing a second solution comprising or consisting of a dicationic salt,
    c. mixing the 2 solutions before injection or co-injecting both solutions to form the hydrogel.
3. The two component-gelation system according to claim 1 or the method according to claim 2, wherein the stabilising agent is sucrose.
4. The two component-gelation system or the method according to any one of the preceding claims, wherein the dicationic salt is a calcium salt, magnesium salt, copper salt or zinc salt.
5. The two component-gelation system or the method according to any of the preceding claims, wherein FGF-18 is selected from the group consisting of :
    a. a polypeptide comprising or consisting of the amino acid residues 28-207 of SEQ ID NO:1,
    b. a polypeptide comprising or consisting of the amino acid residues 28-196 of SEQ ID NO:1, and
    c. a polypeptide comprising or consisting of SEQ ID NO:2.
6. The two component-gelation system or the method according to any one of the preceding claims, wherein in the respective solutions, the alginate is in a concentration of 3 to 4 % wt, the collagen is in a concentration of 1 to 2 mcg/mL, the stabilising agent is in a concentration of 10 to 100 mg/mL, and the salt is in a concentration of 1 to 20 mg/mL.
7. The two component-gelation system or the method according to any one of the preceding claims, wherein the ratio solution 1:solution 2 is 2:1 (volume to volume).
8. An article of manufacture comprising two containers, wherein:
    a. the first container comprises or consists of a first homogeneous solution, wherein said first solution comprises or consists of FGF-18, alginate, collagen and a sugar as stabilizing agent, and
    b. the second container comprises or consists of a second solution, said second solution comprising or consisting of a dicationic salt.
9. The article of manufacture according to claim 8, wherein the stabilising agent is sucrose.
10. The article of manufacture according to any one of claims 8 or 9, wherein the dicationic salt is a calcium salt, magnesium salt, copper salt or zinc salt.

11. The article of manufacture according to any of claims 8 to 10, wherein FGF-18 is selected from the group consisting of :
    a. a polypeptide comprising or consisting of the amino acid residues 28-207 of SEQ ID NO:1,
    b. a polypeptide comprising or consisting of the amino acid residues 28-196 of SEQ ID NO:1, and
    c. a polypeptide comprising or consisting of SEQ ID NO:2.
12. The article of manufacture according to any one of claims 8 to 11, wherein in the respective solutions, the alginate is in a concentration of 3 to 4 % wt, the collagen is in a concentration of 1 to 2 mcg/mL, the stabilising agent is in a concentration of 10 to 100 mg/mL, and the salt is in a concentration of 1 to 20 mg/mL.
13. The article of manufacture according to any one of claims 8 to 12, wherein the ratio solution 1:solution 2 is 2:1 (volume to volume).
14. The article of manufacture according to any one of claims 8 to 13, wherein the first container and the second container are the two compartments of a dual-chamber system or of a dual-needle injection device.