What is claimed is:

1. A system for delivering a therapeutic treatment to a targeted population of cells of a subject, the system comprising:

a vial enclosed with a septum that is penetrable by a needle of a syringe to be used for administration of the therapeutic treatment;

a therapeutic composition disposed in the vial, the therapeutic composition provided for use in administration of the therapeutic treatment and comprising an aqueous solution including a chitosan gel and a plurality of particles embedded in the gel, the gel having a viscosity rendering it suitable for administration by injection;

the particles containing a therapeutic agent and having a coating around the therapeutic agent; and

the coating including chitosan so as to provide controlled release of the agent from the particles.

2. A system according to claim 1, wherein the aqueous solution further includes a compound selected from the group consisting of a hydration promotor, a particle adhesion inhibitor, a particle aggregation inhibitor, and combinations thereof, wherein:

(a) the hydration promotor is selected from the group consisting of ethylene glycol, propylene glycol, beta-propylene glycol, glycerol and combinations thereof,

(b) the particle adhesion inhibitor is selected from the group consisting of HPMC, poloxamer, and combinations thereof, and

(c) the particle aggregation inhibitor is selected from the group consisting of monosaccharides, disaccharides, sugar alcohols, chlorinated monosaccharides, chlorinated disaccharides, and combinations thereof.

3. A system according to any of claims 1 and 2, wherein the aqueous solution further includes sodium tripolyphosphate.

4. A system according to any of claims 1 and 2, wherein the particles are microparticles having an average diameter between 200 nm and 2000 nm.

5. A system according to any of claims 1 and 2, wherein the particles are microparticles having an average diameter between 500 nm and 2000 nm.

6. A system according to any of claims 1 to 5, the aqueous solution further including a free quantity of the therapeutic agent, not coated with chitosan, wherein the free quantity of therapeutic agent comprises between about 20% to about 80% of a total quantity by weight of therapeutic agent in the aqueous solution.

7. A system according to any of claims 1 to 6, wherein the therapeutic agent is an immunotherapeutic.

8. A system according to claim 7, wherein the immunotherapeutic is selected from the group consisting of an antibody, a cytokine, a small molecule immunotherapeutic, and combinations thereof.

9. A system according to any of claims 1 to 6, wherein the therapeutic agent is a chemotherapeutic.

10. A system according to claim 1, wherein the particles are in direct physical contact with the chitosan gel.

11. A method for treatment of a targeted population of cells of a subject, the method comprising:

obtaining the system according to claim 1;

loading the aqueous solution into the syringe;

injecting the aqueous solution into the targeted population of cells by means of the syringe.

12. A method according to claim 11, wherein the targeted population of cells includes a tumor.

13. A method according to claim 11, wherein the targeted population of cells is tissue in an organ.

14. A method according to claim 13, wherein the organ is selected from the group consisting of eye, lung, pancreas, liver, kidney, brain, heart, thyroid, and pituitary.

15. A system for delivering a therapeutic treatment to a targeted population of cells of a subject, the system comprising:

a vial enclosed with a septum that is penetrable by a needle of a syringe to be used for administration of the therapeutic treatment;

a therapeutic composition disposed in the vial, the therapeutic composition provided for use in administration of the therapeutic treatment and comprising a lyophilized precursor formulated so that upon mixing with water, it dissolves to provide an aqueous solution including chitosan gel and a plurality of particles embedded in the gel, the gel having a viscosity rendering it suitable for administration by injection;

the particles containing a therapeutic agent and having a coating around the therapeutic agent; and

the coating including chitosan so as to provide controlled release of the agent from the particles.

16. A lyophilization method for providing a system for delivering a therapeutic treatment to a targeted population of cells of a subject, the method comprising:

forming an aqueous solution including a chitosan gel and a plurality of particles, the particles containing a therapeutic agent and having a coating around the therapeutic agent, the coating including chitosan so as to provide controlled release of the agent from the particles;

freezing the first aqueous solution in a bath containing an aqueous alcoholic solution at a temperature above the freezing temperature of the aqueous alcoholic solution and at most -80°C, to form a frozen layer precursor;

drying the frozen layer precursor, to form anhydrous powder embedded with particles;

including the anhydrous powder in a vial enclosed with a septum that is penetrable by a needle of a syringe to be used for administration of the therapeutic treatment; and

adding water to the container to dissolve the anhydrous powder.

17. A lyophilization method according to claim 16, wherein the anhydrous powder further includes a compound selected from the group consisting of a hydration promoter, a particle adhesion inhibitor, and a particle aggregation inhibitor, and combinations thereof,

wherein the hydration promoter is selected from the group consisting of ethylene glycol, propylene glycol, beta-propylene glycol, glycerol and combinations thereof,

wherein the particle adhesion inhibitor is selected from the group consisting of hydroxypropylmethylcellulose, poloxamer, and combinations thereof, and

wherein the particle aggregation inhibitor is selected from the group consisting of monosaccharides, disaccharides, sugar alcohols, chlorinated monosaccharides, chlorinated disaccharides, and combinations thereof.

18. A method according to claim 16, wherein the anhydrous powder further includes sodium tripolyphosphate.

19. A method according to claim 16, wherein the particles are microparticles having an average diameter between 200 nm and 2000 nm.

20. A method according to claim 16, wherein the particles are microparticles having an average diameter between 500 nm and 2000 nm.

21. A system according to claim 1, configured for delivering a therapeutic treatment for an ocular condition by intravitreal injection.

22. A system according to claim 21, wherein the therapeutic agent is selected from the group consisting of an antibody, a cytokine, a small molecule immunotherapeutic, a chemotherapeutic, an aptamer, and combinations thereof.

23. A system according to claim 21 wherein the ocular condition is age-related macular degeneration.

24. A system according to claim 23, wherein the therapeutic agent is bevacizumab.