The Claims:

1. A cell composition comprising a plurality of limbal derived stromal cells, a plurality of limbal derived epithelial cells, thrombin and fibrinogen, wherein the limbal derived stromal cells and the limbal derived epithelial cells are each present in the cell composition at a concentration ranging from 4000 to 5000 cells/µL, and wherein the limbal derived stromal cells and the limbal derived epithelial cells are present in the cell composition at a ratio from 1:5 to 5:1.

2. A multilayer cell composition comprising:

a. a first layer comprising a plurality of limbal derived stromal cells and thrombin; and

b. a second layer comprising a plurality of limbal derived epithelial cells and fibrinogen,

wherein the second layer is deposited over the first layer.

3. A multilayer cell composition comprising:

a. a first layer comprising a plurality of limbal derived stromal cells and thrombin; and

b. a second layer comprising a plurality of limbal derived epithelial cells and fibrinogen,

wherein the second layer is deposited over the first layer,

the limbal derived stromal cells and the limbal derived epithelial cells are each present in the composition at a concentration ranging from 4000 to 5000 cells/µL, and the limbal derived stromal cells and the limbal derived epithelial cells are present in the composition at a ratio from 1:5 to 5:1.

4. The multilayer cell composition as claimed in claim 2 or 3, wherein the thrombin and the fibrinogen are present in the composition at a ratio ranging from 1:5 to 5:1.

5. A method of preparing a cell composition, the method comprising: mixing a plurality of limbal derived stromal cells and a plurality of limbal derived epithelial cells to produce a mixed population of cells; and

adding thrombin and fibrinogen, wherein the limbal derived stromal cells and the limbal derived epithelial cells are present in the cell composition at a ratio ranging from 1:5 to 5:1, and the limbal derived stromal cells and the limbal derived epithelial cells are each present in the cell composition at a concentration ranging from 4000 to 5000 cells/µL, and wherein the cell composition is for treating a non-healing corneal epithelial defect or a persistent corneal epithelial defect.

6. The method as claimed in claim 5, further comprising customizing the ratio of limbal derived stromal cells and limbal derived epithelial cells as per the treated defect.

7. The method as claimed in claim 5 or 6, further comprising steps for obtaining the limbal derived epithelial cells and the limbal derived stromal cells, the steps comprising:

harvesting the limbal derived epithelial cells;

removing a portion of the limbal derived epithelial cells; and

differentiating the portion into limbal derived stromal cells.

8. Use of a cell composition as claimed in claim 1, or a multilayer cell composition as claimed in claim 3 in the manufacture of a medicament for treating a disease or disorder of the eye in a patient, wherein said disease or disorder of the eye is a non-healing corneal epithelial defect or a persistent corneal epithelial defect.

9. The use as claimed in claim 8, wherein the composition is to be layered on a corneal or an ocular surface of the patient.