CLAIMS

1. A pharmaceutical composition for maintaining viability of a therapeutic mammalian cell comprising:

a freezing medium;

a freezing agent comprising dimethyl sulfoxide at 7.5% or lower; and

an organic polymer.

2. The pharmaceutical composition of claim 1, wherein the medium excludes animal serum.

3. The pharmaceutical composition of claim 1 or 2, wherein the polymer is a hyaluronic acid.

4. The pharmaceutical composition of any of claims 1-3, wherein the cells are derived from disc tissue, skin, muscle, intestine, bone marrow, neural, liver, heart, lung, pancreas, articular cartilage, bone, thymus, thyroid, or lymph tissue.

5. The pharmaceutical composition of any of claims 1-4, wherein the cells are derived from disc tissue, articular cartilage, heart tissue, or bone.