CLAIMS

1. A pharmaceutical composition for pulmonary delivery comprising particles of levodopa having:

a geometric size of about 8 μm to about 12 μm;

a tap density of about 0.025 g/cm^3 to about 0.050 g/cm^3;

a water content between 1.90 and 2.90 weight percent.

2. The pharmaceutical composition of claim 1, wherein said particles comprise a phospholipid.

3. The pharmaceutical composition of claim 1, wherein said particles comprise a salt.

4. The pharmaceutical composition of claim 1, wherein said particles comprise a surfactant.

5. The pharmaceutical composition of claim 1, wherein said particles comprise a polymer.

6. The pharmaceutical composition of claim 1, wherein said particles comprise a sugar.

7. The pharmaceutical composition of claim 1, wherein said particles have an aerodynamic diameter of between about 2.5 μm and 5 μm.

8. The pharmaceutical composition of claim 1, wherein said particles have an external surface area of about 10 m^2/g to about 50 m^2/g.

9. The pharmaceutical composition of claim 1, wherein said particles further comprise a salt and a phospholipid.