CLAIMS

1. A dry powder pharmaceutical composition suitable for administration by inhalation comprising:

(i) ensifentrine particles;

(ii) coarse lactose particles having a Dv50 of from 40 μm to 80 μm; and

(iii) fine lactose particles having a Dv50 of from 5 μm to 10 μm,

wherein:

the fine lactose particles are present in an amount of from 0.1 wt% to 6.0 wt% relative to the total weight to the dry powder pharmaceutical composition.

2. A dry powder pharmaceutical composition according to claim 1, wherein the amount of fine lactose particles is from 0.5 wt% to 5.0 wt% relative to the total weight of the dry powder pharmaceutical composition, preferably from 3.5 wt% to 4.0 wt%.

3. A dry powder pharmaceutical composition according to claim 1 or 2, wherein the coarse lactose particles are present in an amount of from 80.0 wt% to 99.0 wt % relative to the total weight of the dry powder pharmaceutical composition, preferably from 90.0 wt% to 96.0 wt%.

4. A dry powder pharmaceutical composition according to any one of the preceding claims, wherein the coarse lactose particles have a Dv50 of from 50 μm to 70 μm, preferably from 55 μm to 65 μm.

5. A dry powder pharmaceutical composition according to any one of the preceding claims, wherein the ensifentrine particles are present in an amount of from 0.1 wt% to 10 wt% relative to the total weight of the dry powder pharmaceutical composition, preferably from 0.2 wt% to 6.0 wt%.

6. A dry powder pharmaceutical composition according to any one of the preceding claims, wherein the ensifentrine particles comprise at least 90 wt% ensifentrine or a pharmaceutically acceptable salt thereof relative to the total weight of the ensifentrine particles, preferably at least 95.0 wt%.

7. A dry powder pharmaceutical composition according to any one of the preceding claims, wherein the ensifentrine particles have a Dv50 of from 0.5 μm to 5.0 μm, preferably from 1.0 μm to 2.0 μm.

8. A dry powder pharmaceutical composition according to any one of the preceding claims, wherein the total amount of the ensifentrine particles, the coarse lactose particles and the fine lactose particles is at least 90.0 wt% relative to the total weight of the dry powder pharmaceutical composition, preferably at least 95.0 wt%.

9. A dry powder pharmaceutical composition according to any one of the preceding claims, which dry powder pharmaceutical composition is suitable for administration by a dry powder inhaler.

10. A dry powder inhaler comprising a dry powder pharmaceutical composition according to any one of the preceding claims.

11. A dry powder pharmaceutical composition according to any one of claims 1 to 9 for use in the treatment of the human or animal body.

12. A dry powder pharmaceutical composition according to any one of claims 1 to 9 for use in the treatment or prevention of a disease or condition selected from asthma, allergic asthma, hay fever, allergic rhinitis, bronchitis, emphysema, bronchiectasis, chronic obstructive pulmonary disease (COPD), adult respiratory distress syndrome (ARDS), steroid resistant asthma, severe asthma, paediatric asthma, cystic fibrosis, lung fibrosis, pulmonary fibrosis, interstitial lung disease, skin disorders, atopic dermatitis, psoriasis, ocular inflammation, cerebral ischaemia, inflammatory diseases and auto-immune disease.

13. A dry powder pharmaceutical composition for use according claim 12 wherein the disease or condition is chronic obstructive pulmonary disease (COPD).

14. A dry powder pharmaceutical composition according to any one of claims 1 to 9 for use in a method of treating a disease or condition as defined in claim 12 or

claim 13, which method comprises inhalation of a dry powder inhaler comprising the dry powder pharmaceutical composition,

wherein the fine particle fraction of the ensifentrine particles following inhalation is at least 20%.

15. A dry powder pharmaceutical composition for use according to claim 14, wherein the fine particle fraction of the ensifentrine particles following inhalation is at least 30%, preferably at least 35%.

16. A method of treating or preventing a disease or condition as defined in claim 12 or claim 13 in a subject, which method comprises administering to said subject an effective amount of a dry powder pharmaceutical composition according to any one of claims 1 to 9.