Claims

1. A capsule form of a pharmaceutical composition comprising 5 mg of meloxicam having a median particle size, on a volume basis, between 100nm and 1000 nm, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a mean plasma AUC (0-∞) of 7500-20000 h*ng/ml and a mean plasma Cmax of 350-950 ng/ml, wherein the D(0.9) of the particles of meloxicam is less than 4000 nm and greater than 1200 nm, and wherein the dissolution rate is such that, when tested using USP Apparatus 1 (baskets) set to rotation speed of 100 RPM in 500 mL of pH 6.1 phosphate buffer with 0.1% sodium laurel sulfate (SLS) at 37° C.±0.5° C., at least 80% of the meloxicam dissolves in 10 minutes or less.

2. The capsule form of claim 1 wherein the dissolution rate is such that, when tested using USP Apparatus 1 (baskets) set to rotation speed of 100 RPM in 500 mL of pH 6.1 phosphate buffer with 0.1% sodium lauryl sulfate (SLS) at 37° C.±0.5° C., at least 90% of the meloxicam dissolves in a time period selected from: 8 minutes or less; 7 minutes or less; 6 minutes or less; and 5 minutes or less.

3. The capsule form of claim 1 or claim 2, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a median plasma Tmax of 1 to 3 hrs.

4. The capsule form of claim 1 or claim 2, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a mean plasma AUC (0-∞) that is 80% to 125% of 13610 ng-h/ml.

5. A capsule form comprising 10 mg of meloxicam having a median particle size, on a volume basis, between 100 nm and 1000 nm, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a mean plasma AUC (0-∞) of 16000-44000 h*ng/ml and a mean blood plasma Cmax of 700-1900 ng/ml, wherein the D(0.9) of the particles of meloxicam is less than 4000 nm and greater than 1200 nm, and wherein the dissolution rate is such that, when tested using USP Apparatus 1 (baskets) set to rotation speed of 100 RPM in 1000 mL of pH 6.1

phosphate buffer with 0.1% sodium laurel sulfate (SLS) at 37° C.±0.5° C., at least 80% of the meloxicam dissolves in 15 minutes or less.

6. The capsule form of claim 5 wherein the dissolution rate is such that, when tested using USP Apparatus 1 (baskets) set to rotation speed of 100 RPM in 1000 mL of pH 6.1 phosphate buffer with 0.1% sodium lauryl sulfate (SLS) at 37° C.±0.5° C., at least 90% of the meloxicam dissolves in a time period selected from: 14 minutes or less; 13 minutes or less; 12 minutes or less; 11 minutes or less; 10 minutes or less; and 5 minutes or less.

7. The capsule form of claim 5 or claim 6, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a median plasma Tmax of 1 to 3 hrs.

8. The capsule form of claim 5 or claim 6, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a mean plasma AUC (0-∞) that is 80% to 125% of 29,173 ng-h/ml.

9. The capsule form of claim 5 or claim 6, wherein a single dose, upon oral administration to a population of healthy adults in the fasted state, provides a mean plasma Cmax that is 80% to 125% of 1253 ng/ml.

10. A capsule form of a pharmaceutical composition comprising 10 mg of meloxicam having a median particle size, on a volume basis, between 100 nm and 1000 nm, wherein a single dose, upon oral administration to a population of healthy adults in the fed state, provides a mean plasma Cmax of 525-1500 ng/ml and a mean plasma AUC (0-∞) of 15000-42000 h*ng/ml, wherein the D(0.9) of the particles of meloxicam is less than 4000 nm and greater than 1200 nm, and wherein the dissolution rate is such that, when tested using USP Apparatus 1 (baskets) set to rotation speed of 100 RPM in 1000 mL of pH 6.1 phosphate buffer with 0.1% sodium lauryl sulfate (SLS) at 37° C.±0.5° C., at least 80% of the meloxicam dissolves in 15 minutes or less.

11. The capsule form of claim 10, wherein a single dose, upon oral administration to a population of healthy adults in the fed state, provides a median plasma Tmax of 3 to 7 hrs.

12. The capsule form of claim 10, wherein a single dose, upon oral administration to a population of healthy adults in the fed state, provides a mean plasma Cmax that is 80% to 125% of 974 ng/ml.

13. The capsule dosage form of claim 10, wherein a single dose, upon oral administration to a population of healthy adults in the fed state, provides a mean plasma AUC (0-∞) that is 80% to 125% of 27,146 ng/ml.