
Supplementary documents:

The quantitative, qualitative and preparation of the traditional Chinese herbs granules used in this study

Rheum palmatum L.

Characters: Yellow to yellow brown particles; slight smell, bitter taste, slightly astringent.

Preparation: rhubarb 30kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.06-1.08 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 10kg.

Process: The product was processed according to the relevant standard of Rheum palmatum L. processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Glycyrrhiza uralensis Fisch.

Characters: yellow brown particles; slight smell, sweet taste.

Preparation: Licorice 30kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.13-1.15 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 5kg.

Process: The product was processed according to the relevant standard of Glycyrrhiza uralensis Fisch processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0512)

Mentha haplocalyx Briq.

Characters: Brownish yellow to brown granules; fragrance, pungent and cool

Preparation: Mint 60kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.13-1.15 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 5kg.

Process: The product was processed according to the relevant standard of Mentha haplocalyx Briq processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Scutellaria baicalensis Georgi.

Characters: Yellow to yellow brown particles; micro gas, bitter taste

Preparation: Baikal Skullcap 10kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.15-1.17 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 2kg.

Process: The product was processed according to the relevant standard of Scutellaria baicalensis processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0512)

Ophiopogon japonicus (L.f) Ker-Gawl

Characters: White to light yellow particles; micro gas, sweet taste.

Preparation: Ophiopogon japonicus 10kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.03-1.05 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 3kg.

Process: The product was processed according to the relevant standard of Ophiopogon japonicus processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Paeonia lactiflora Pall.

Characters: Light brown to dark brown granules; micro gas, slightly bitter taste.

Preparation: herbaceous peony 20kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.03-1.05 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 3kg.

Process: The product was processed according to the relevant standard of Paeonia lactiflora Pall processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Pheretima aspergillum (E.Perrier)

Characters: Pale yellow to brownish yellow granules, gas fishy, taste salty.

Preparation: herbaceous peony 10kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.07-1.09 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 1kg.

Process: The product was processed according to the relevant standard of Pheretima aspergillum processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Scrophularia ningpoensis Hemsl.

Characters: Light brown to brown particles; gas micro, taste slightly sweet, slightly bitter.

Preparation: Scrophularia 10kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.09-1.11 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 3kg.

Process: The product was processed according to the relevant standard of Scrophularia processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Forsythia suspensa (Thunb.) Vahl.

Characters: brownish yellow to yellowish brown particle; a delicate fragrance, bitter taste.

Preparation: Forsythia 20kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.09-1.11 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 1kg.

Process: The product was processed according to the relevant standard of Forsythia suspense processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)

Dryopteris crassirhizoma Nakai.

Characters: Brownish red to brown particles; gas slightly bitter taste, slightly astringent.

Preparation: Aspidium 30kg were added water for decoction for one hour for two times. Then the mixture were filtered to obtain the solution. The solution was condensed to a relative density of 1.09-1.11 (60°C) for spray drying. Add a proper amount of maltodextrin, mix to obtain granulation. The final weight of granule is 1kg.

Process: The product was processed according to the relevant standard of Dryopteris crassirhizoma Nakai processing of Chinese Pharmacopoeia (2015) Volume I .

Examination: Consistent with the provisions of the relevant provisions of granules (Chinese Pharmacopoeia 2015 edition of the four general rules of the 0104)