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CERTIFICATE OF ANALYSIS

Rhubarb Root Whole (Eur. Ph. Grade)

Lot Number: HK211216-4 Manufacture Date: 2022/01/03 Expiry Date: 2024/01/02

General Information

Other Names : Rhei radix, Rhei Rhizoma

Rhubarb consists of the whole or cut, dried underground parts of Rheum palmatum L. or of Rheum

Definition officinale Baillon or of hybrids of these two species or of a mixture. The underground parts are often

divided; the stem and most of the bark with the rootlets are removed.

Part Used Root

Botanical/Scientific Name : Rheum palmatum/Rheum officinale L

GM Status : Not Genetically modified

Allergen Status Not Allergen Cultivated/Wild : Cultivated Country Of Origin China

Harvesting Period Spring and Autumn

Treatment After Harvesting : Drying : 1211.90



Sanitising Treatment After Harvesting: None H.S.Code **ITEMS SPECIFICATION METHOD** Physical&Chemical Data

The appearance is variable: disc-shaped pieces up to 10 cm in diameter and 1 cm to 5 cm in thickness; cylindrical pieces; oval or planoconvex pieces. The surface has a pinkish tinge and is usually covered with a layer of brownish-yellow powder. It shows, especially after moistening, a reticulum of Macroscopic/microscopic ID darker lines. This structure causes the marbled appearance of the drug. The fracture is granular. The

transverse section of the rhizome shows a narrow outer zone of radiating brownish-red lines. These medullary rays are crossed perpendicularly by a dark cambial ring. Inside this zone is a ring of small star-spot formations of anomalous vascular bundles. The root shows a more radiate structure.

Analytical Quality

Rhein : ≥2.2% **HPLC** 2.35% Loss on Drying ≤12.0% Eur.Ph. 11.20% : ≤12.0% Eur.Ph. 4.80% Total ash : ≤2.0% Eur.Ph. 0.52% Ash insoluble in hydrochloric acid

Contaminants

Lead (Pb) Eur.Ph. 0.19 mg/kg : \leq 2.0 mg/kg Arsenic (As) Eur.Ph. 0.059 mg/kg : ≤2.0 mg/kg Cadmium (Cd) Eur.Ph. 0.20 mg/kg : ≤1.0 mg/kg Mercury (Hg) Eur.Ph. Negative : ≤0.1 mg/kg

Pesticides Residue : Meet USP Requirements **USP** 278 pesticides are less than LOQs

Packing&Storage : Packed in Carton and two plastic-bags inside. N.W:15kgs

Store in a well-closed container. Away from moisture, light, oxygen.

Shelf life 24 months under the charge above and in its original packaging.

Analytical Laboratory Manager:

Date: 2022.01.10



