

生产 1000 吨复方猴头颗粒的生产车间工艺设计

摘要

复方猴头颗粒是略带甜的黄棕色的颗粒。复方猴头颗粒的主要成分主要有猴头子实体、硫糖铝次硝酸铋、三硅酸镁。复方猴头颗粒主要是用来治疗消化道溃疡，消化道溃疡主要是包括胃溃疡、十二指肠溃疡、慢性胃炎。

本设计是以猴头子实体为主要原料，加入一定的辅料以及次硝酸铋三硅酸铝等经过粉碎、过筛、混合、制软材、制湿粒、干燥、整粒、质量检查、分剂量、包装制成复方猴头颗粒。

本设计的任务是生产 1000 吨复方猴头颗粒的生产车间，复方猴头颗粒的规格是每袋 5 克，所以共计要生产 2×10^8 袋，按一盒 12 袋计算，共需要生产 1.7×10^7 盒，颗粒剂的制备主要涉及湿法制粒，湿法制粒的主要原理就是将粉末状的原料药中加入一定量的润湿剂和粘合剂中，并经加工制成具有一定形状和大小的颗粒形式。

原料阶段主要是把猴头子实体进行称量分剂量，然后把猴头子实体放在多功能提取罐里进行煮沸，然后将沸液冷却进行过滤的操作，最后将滤液分别经过薄膜蒸发器和真空提取锅进行提取浓缩，最后制成浸膏。

制粒阶段主要是将上述浸膏在粉碎机和过筛机里经过粉、碎过筛过程，然后加入一定的辅料进行在物料混合机里进行混合操作，然后按照操作流程在制粒机内进行制粒，制成的湿粒经过干燥机干燥，最后经过整粒机整粒后得到均匀大小的颗粒剂。

对产出的颗粒进行一系列的分剂量、包装即得到成品复方猴头颗粒。

关键字：复方猴头颗粒 猴头子实体 治疗胃病 制药车间设计

Abstract

The compound monkey head granules are yellow-brown granules with a slightly sweet taste. The main components of the compound Hericium granules are probably the monkey head fruit body, sulphide aluminum hyponitrate, and magnesium trisilicate. Compound Hericium granules are mainly used to treat digestive ulcers, mainly gastric ulcer, duodenal ulcer and chronic gastritis.

The design is based on the monkey head fruit body as the main raw material, adding certain auxiliary materials and strontium nitrite trisilicate, etc. after pulverization, sieving, mixing, soft material, granulation, drying, granulation, quality inspection, dosage, The package is made into a compound monkey head granule.

The design task is to produce 1000 tons of compound monkey head pellet production workshop. The specification of compound monkey head pellet is 5 grams per bag, so a total of 2×10^8 bags should be produced. According to a box of 12 bags, a total of 1.7×10^7 boxes need to be produced. The preparation of the agent mainly involves wet granulation, and the powdery pharmaceutical raw material is added into a suitable wetting agent and a binder, and processed into a granular object having a certain shape and size.

In the raw material stage, the monkey head fruit body is weighed and dosed, then boiled in a multi-function extraction tank, and then the boiling liquid is cooled and filtered, and finally the filtrate is separately extracted and concentrated through a thin film evaporator and a vacuum extraction pot. Finally, the extract is made.

In the granulation stage, the above-mentioned extract is mainly subjected to a powdering and sieving process in a pulverizer and a sieving machine, and then a certain auxiliary material is added for mixing operation in the material mixing machine, and then carried out in the granulator according to the operation flow. The granules are prepared, and the prepared wet granules are dried by a dryer, and finally granulated by a granulator to obtain granules of uniform size.

The finished compound monkey head granules are obtained by performing a series of divided doses and packaging on the produced granules.

Keywords : Compound monkey head granule, Monkey head fruiting body, Treating stomach problems, Pharmaceutical workshop design

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