

年产 100 吨头孢拉定原料药车间工艺设 计

摘 要

头孢菌素 VI、先锋霉素 VI 等也是化学家们对头孢拉定常用的名称。头孢拉定类属于第一代头孢菌素类抗生素，是美国本土公司首先研制出来的。目前工业上大多数采用的是化学合成法^[1]。它比酶催化法生产周期更快、产量更高。自头孢拉定问世以来，它良好的抗菌性就受到广大研究者的喜爱，被广泛用来研究，所以它的合成路线也受到不少研究者的青睐。

通过查阅国内外文献，结合国内现状，对头孢拉定量身设计了最优的生产工艺方案。厂址是以衡水市高新区为基地，对衡水市的自然因素、实地情况、消费水平和经济因素等多方面进行了综合考量后，合理的规划了药厂的布局与面积。为了更适应本地情况，对制药厂的内部布局做了相应的配套改变。为了达到药厂更具有人性化的目标，本着车间的布局符合生产最优化的原则，药厂生产工厂严格按照要求建设，使生产更加方便、简单、顺畅。

关键词：头孢拉定；工艺设计；计算

ABSTRACT

The names of cephalosporins VI、 pioneerin VI are also commonly used by chemists for cefradine. Cefradine, a first-generation cephalosporin antibiotic, was first developed by an American company. At present, most of the industry uses chemical synthesis method, which is faster and more productive than enzyme catalytic method. Since the advent of cefradine, its good antibacterial properties have been popular among researchers and widely used, so its synthetic route has been favored by many researchers.

By consulting the domestic and foreign literature and combining with the present situation in China, the optimal production process scheme of cefrad is designed. The site is based on the high-tech zone of Hengshui City. After comprehensive consideration of natural factors, field situation, consumption level and economic factors, the layout and area of pharmaceutical factory are reasonably planned. In order to adapt to the local situation, the internal layout of the pharmaceutical factory has been changed accordingly. In order to achieve the goal of more humanized pharmaceutical factory, in line with the layout of the workshop in line with the principle of production optimization, pharmaceutical factory production factory strictly in accordance with the requirements of construction, making production more convenient, simple and smooth.

Keywords: Cefradine; process design; calculation

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