D-Glucosamine sulfate.2Kcl Flow chart

甲壳素分检

Acceptance and testing of chitin biomass according to acceptance criteria(Chitin from shrimp/crab shell)

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weighing 称重

↓

loading into hydrolysis reactor 水解

↓

Hydrolysis of chitin with HCl 水解 90 ℃ 2hours

↓

cooling 冷却

↓

transfer to crystallisation tank 放入结晶

↓

crystallization 结晶

↓

Centrifugation to harvest crude product 结晶分离 20 ℃ 3 hours

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dissolution in water 溶于水

↓

transfer to new tank 转移进新釜

↓

Decolorisation with activated charcoal 脱色 50 ℃ 1 hour

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Filtration of purified, solubilised product 过滤

↓

Concentration and crystallisation under vacuum 真空浓缩 60 ℃ 3 hours

↓

Centrifugation to harvest crystals 结晶

↓

washing with EtOH 洗涤

↓

centrifugation 离心

↓

Drying 烘干 90 ℃ 6 hours

↓

milling 粉碎

↓

sieving 过筛

↓

Packaging of Glucosamine Hydrochloride crystals 分装

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Mix with a certain ration of food grade K_2SO4 拼混

↓

Sieve 过筛

↓

Packing 包装

中国江苏高邮同心路 2 号 邮编 225601 电话：0086-514-84549155 传真 0086-514-84549297
No2,Tongxin RD,Gaoyou City,Jiangsu,China PO.225601 TEL:0086-514-84549155 FAX:0086-514-84549297
http://www.rxgp.com email:jsrx@gaoyou.com