



儿茶凝胶的制备和抗炎药效学评价

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作者中 文名	作者英文名	单位中文名	单位英文名	E-Mail
		浙江大学 医学院 附属妇产科医院,浙江 杭州 310006	Women's Hospital, School of Medicine, Zhejiang University, Hangzhou 310006, China	
		浙江大学 医学院 附属妇产科医院,浙江 杭州 310006	Women's Hospital, School of Medicine, Zhejiang University, Hangzhou 310006, China	chzheng@zju.edu.cn

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中文摘要:目的: 制备儿茶凝胶 并对凝胶的释放行为和抗炎药效学进行研究。 方法: 以儿茶素和表儿茶素的含量总和占儿茶质量的百分比为提取率作为考察指标采用正交试验-考察之醇浓度、料液比、提取温度和超声时间4个因素对提取结果的影响,儿茶提取物以: 治润均基度: 乙醇胺分种和剂助成儿素液胶及溶胶的体外养药性和大成剂疾药效进行研究。 结果: 超声波特提提法形成形成形成形成形成形成形式 "我果"超声波特提法形成形式 "足器声声问为35 mi.是规度进步60°。 从茶凝胶处方下波则94°00.5。由计前50°g.儿茶提取物500 mi...三乙醇胺0.5 mi...儿茶凝胶细腻光洁、呈半透明:释放药物快对角叉菜胶所致的大鼠足趾肿胀具有明显的 抑制作用,作用时间与凝胶剂量呈正性相关。 结论:儿茶凝胶配方合理,质量可控,具有明显的抗炎作用,可进一步研究开发.

中文关键词: <u>儿茶</u> 提取 凝胶 体外释放 抗炎

Preparation and pharmacodynamics studies on anti-inflammatory effect of catechu gel

AbstractsObjective: To prepare the gel of Chinese medicine catechu. study its release mechanism in vitro and observe the anti-inflammatory activity in rats. Method: Using the amount of catechin and epicatechin in dry extract as major evaluation factors, orthogonal experiment was carried out to investigate four influential factors of the ethanol concentration, ratio of raw material to solvent, ultrasonic time and extraction temperature. The catechu gel was prepared by using carbomer-940 as the gel base, and triethanomine as neutralizer. The experiments on drug-releasing profiles in vitro and the phannacodynamics studies on the anti-inflammatory in rats were carried out, respectively. Result: The optimum condition of extraction from catechu was as follows, the concentration of chanol, ratio of raw material to solve ultrasonic time, and extraction temperature were 50%, 1: 12, 35 min and 60 °C, respectively. The formulation of catechu gel was carbomer-9 400.5 g, glycerol 5.0 g, the extracts of catechu 9.00 mil., and tirehanomine 0.5 mil. The gel was semitransparent and stable. The drugs released quickly. The catechu gel reduced he paw edema considerably in doss-dependent manner compared to carrageenam-induced rat. Conclusion: The formulation of the catechu gel is reasonable, and it shows remarkable anti-inflammatory activity. It is worth doing further research.

 ${\color{red}\textbf{keywords:}} \underline{\text{catechu}} \hspace{0.2cm} \underline{\text{ultrasonic extraction}} \hspace{0.2cm} \underline{\text{gel}} \hspace{0.2cm} \underline{\text{anti-inflammatory}} \hspace{0.2cm} \underline{\text{release in vitro}}$

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