

D315树脂分离茶多糖工艺的研究

Isolation of tea polysaccharides by D315 resin

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中文摘要:

对D315树脂分离纯化茶多糖的工艺进行了研究, 试验结果表明, D315树脂适用于茶多糖的初步分离和纯化。在上样液pH值6.0~7.0, 温度30℃, 糖醛酸质量浓度2.5 mg/mL时, 先收集上柱吸附的流出液和去离子水洗脱液, 得到以中性糖为主的茶多糖NTPS, 该多糖总糖质量分数为82.7%, 糖醛酸质量分数为7.9%; 而后采用0.5 mol/L NaCl溶液洗脱, 得到糖醛酸含量高的酸性糖ATPS, 该多糖总糖质量分数为85.5%, 糖醛酸质量分数为35.2%。

英文摘要:

The technology for isolation and purification of tea polysaccharides with D315 resin was studied. It was indicated that D315 resin was suitable for the preliminary isolation and purification of tea polysaccharides. Under the conditions of sample solution with pH 6.0~7.0, temperature 30℃ and 2.5 mg/mL of uronic acids, one polysaccharide NTPS which was mainly neutral sugar was obtained by collecting the solution flowing out and the fraction with water elution. The total sugar content of NTPS was 82.7% and its uronic acid content was 7.9%. Another polysaccharide ATPS which was mainly acid polysaccharides was obtained by collecting the fraction with 0.5 mol/L NaCl elution. The total sugar content of ATPS was 85.5% and its uronic acid content was 35.2%.

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