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酶解法预处理杜仲柏壳考察指标的研究

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Research of Investigation Targets in Enzyme Pretreatment Shell of Eucommia Ulmoide

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摘要 为探讨杜仲柏壳酶解液中总糖含量的测定方法的可行性,将其总糖含量作为酶解率的考察指标,在相同酶解条件下,同一用量的不同种类酶和不同用量的同一种酶分别对杜仲柏壳酶解,采用蒽酮比色法,以供试品空白为参比测定酶解液中总糖的含量.结果表明:在625 nm波长下测得各酶解液中总糖含量能较好地反应出酶解率的不同,同时酶解液中的酶不会影响蒽酮比色法测定酶解总糖的含量作为酶解率的考察指标.采用差示光度法(ΔA 法)可消除酶解液中干扰测定总糖含量的许多因素,方法简单,结果准确,可为研究酶解法预处理样品原料的酶解率提供一种可行的考察指标.

关键词: 杜仲柏壳 总糖含量 蒽酮比色法 酶解法 考察指标 差示光度法

Abstract: Objective To explore whether the method of determination of the total sugar in enzyme solution of eucommial seed shell can be feasible.Methods The total sugar content was taken as the study indicators of digestion rate.In the same conditions, eucommial seed shell was degraded by the same amount of different types of enzymes and by the different amounts of an enzyme respectively.When sample was taken as blank fiduciary the total sugar was determined with anthrone colorimetry.Results The measured total sugar of the enzyme solution better reflected the different rates of digestion in the 625 nm wavelength,and the total sugar determined with anthrone colorimetry and total sugar content as an indicator of the enzymes rate will not be affected by enzyme in enzyme solution of eucommial seed shell.Conclusions The method can eliminate interfering factor of the enzyme solution with differential spectrophotometry (ΔA method),which can prove a simple and accurate method for an indicator of the enzymes rate in the pretreatment samples of raw materials.

Key words: shell of eucommia ulmoide total sugar content anthrone colorimetry enzymatic method
investigation targets: differential spectrophotometry

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