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DESCRIPTION CN103483458A

New technology for extracting polysaccharides from shiitake mushroom stems

[0001]

Technical fields:

技术领域:

[0002]

This invention belongs to the field of food processing technology, and in particular relates to a new technology for extracting polysaccharides from waste shiitake mushroom stems.

本发明属食品加工技术领域，特别是涉及一种利用废香菇柄提炼多糖新技术。

[0003]

Technical background:

技术背景：

[0004]

Currently, people generally waste the stems of shiitake mushrooms, failing to make full use of them.

目前民众普遍将香菇的柄白白浪费掉，没有充分利用。

[0005]

Summary of the Invention:

发明内容:

[0006]

In order to make full use of the useful edible cellulose contained in the stem of shiitake mushroom, this invention provides a technology for extracting polysaccharide products from the stem of shiitake mushroom.

本发明为了充分利用香菇柄内所含的有用食用纤维素，提供了一种利用香菇柄提炼多糖产品技术。

Products extracted using this technology have high bioactivity and medicinal value.

这种技术提炼出的产品具有较高的生物活性和药用价值。

Firstly, it enhances immunity. Lentinan can directly activate lymphocytes, increase the function of antibody-forming cells, and effectively enhance the body's immune function.

其一，增强免疫力，香菇多糖可直接激活淋巴细胞，增加抗体形成抗体细胞的功能，有效增强肌体的免疫功能。

Secondly, lentinan can directly resist the atrophy of the thymus and spleen caused by deficiency of both qi and blood, thus delaying aging.

其二，延缓衰老香菇多糖可直接抵抗气血双虚对胸腺及脾脏的萎缩。

Thirdly, it has antioxidant properties; shiitake mushroom stem extract can effectively eliminate oxygen-containing free radicals in the body.

其三，抗氧化性，香菇柄提取物能有效清除体内含氧自由基。

It has a good self-healing effect on diabetes, heart disease and neurasthenia. Lentinan is a substance with both medicinal and health benefits, and is an environmentally friendly product that is beneficial to humankind. The formula is as follows: 100 parts by weight of clean shiitake mushroom stems free of impurities and mold, 4000 parts by weight of deionized water, 3500 parts by weight of 2% sodium hydroxide aqueous solution, 3000 parts by weight of deionized water with compound enzyme, 1 part by weight of sodium acetate solution, 1 part by weight of cellulase, and 1 part by weight of ether.

对糖尿病，心脏病和神经衰弱具有好的自疗作用。香菇多糖是善药两用物质，是一种有益于人类的环境友好产品。其配方为，无杂质无霉变干净的香菇柄100质量份，去离子水4000质量份，百分之2的氢氧化钠水溶液3500质量份，去离子水加复合酶3000质量份，醋酸钠溶液百分之1质量份，纤维素酶百分之1质量份，乙醚百分之1质量份。

[0007]

This invention is achieved through the following technical solution:

本发明通过以下技术方案来实现的：

[0008]

1. Hot water extraction method: Put the crushed shiitake mushroom stem powder into a container, add 20 times the amount of deionized water, heat to 90 to 95 degrees Celsius, stir for 2 hours, filter out the residue and obtain the filtrate.

1，热水提取法，将粉碎后的香菇柄粉末投入到容器内，加入20倍的去离子水加温90到95度搅拌2小时过滤出渣及取得滤液。

Then it is concentrated, dried, and packaged into a powder for storage.

然后浓缩干燥成粉末状产品包装储存。

2,

2. Alkali extraction method: Put the crushed shiitake mushroom stem powder into a container, add 5 times the amount of ether, heat to 90 to 95 degrees Celsius and stir for 2 hours, filter out the residue and obtain the filtrate, then concentrate and dry it into a powder product for packaging and storage.

加碱提取法，将粉碎后的香菇柄粉末投入到容器内，加入5倍的乙醚加温90到95度搅拌2小时过滤出渣及取得滤液，然后浓缩干燥成粉末状产品包装储存。

The required equipment includes a crusher, containers, extraction equipment, concentration and drying equipment, and packaging equipment.

所需设备有粉碎机，容器，提取设备，浓缩干燥设备，包装设备。

[0009]

Raw material specifications and dosage

原料规格及用量

[0010]

Raw materials: Clean, dry shiitake mushroom stems pulverized into 40-mesh powder.

原料；干净、干燥、的香菇柄粉碎成40目粉状。