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中文标题



象皮和拟替代品猪皮、鱼鳞中胶原及其抗氧化活性研究

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中文捐要:目的: 研究传统中再象皮和拟替代品籍皮、鱼鳞的胶原结构和抗氧化活性。 方法: 通过正交试验设计法-优选了象皮胶 原的最佳提取条件--均和替代品胶原对其结构和含量进行比较采用水构胶法测定几条自清除羟基自由基能力。 结果 首次从象皮 中规取了结构实验里 质量较多的胶原。与机特代品的胶层结构类和优土发皮胶质。 程皮胶原、海酸胶层清油合物量低位  $C_{50}$ 分别为0.51.0.60,0.42 g · L · l 。 結论: 通过比较和鉴定.象皮胶原蛋白为 1 型胶原.抗氧化能力较强.明确了象皮的有效成分,为今 后进一步探讨象皮替代品研究提供了重要参考依据。

中文关键词:<u>象皮 胶原 抗氧化</u>

## Extraction and antioxidant activity of collagen from elephant skin, pig skin and fish scales

Abstract:Objective: To study collagen structure of the traditional Chinese medicine elephant skin and the proposed alternatives such as pig skin, fish scale, and antioxidant activity. Method: Orthogonal experimental design method was employed to determine the optimal extraction condition of collagen from the elephant skin, and the structure and content of collagen of proposed alternatives were compared, their seavenging ability were determined by salicylic acid. Result: Collagen extracted from elephant skin with the optimal conditions was the structural integrity and good quality first time, and collagen structure of the elephant skin was similar to the proposed alternatives. Free radical scavenging capacity of collagen, values of  $\Gamma_{SQ}$  were 0.51 g · L<sup>-1</sup> of elephant skin, 0.60 g · L<sup>-1</sup> of pig skin and 0.42 g · L<sup>-1</sup> of fish scale. Conclusion: By comparing and identification of proteins that the collagen of elephant skin is type | collagen, with a strong antioxidant capacity, is the active ingredients of elephant skin. It provides a further study of alternatives as an important reference.

keywords: elephant skin collagen antioxidant

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