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论文

冬虫夏草氨基酸成分的药理分析

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摘要:

按照天然冬虫夏草所含的18种氨基酸成分进行人工配伍(配Ⅰ),以小白鼠自发活动为指标,证明配Ⅰ具有与天然虫草相似的作用;但商品复合氨基酸注射液(虽然总氨基酸含量相等)却作用显著为弱。两种复合氨基酸中含量相差5倍以上者只有谷氨酸,色氨酸及酪氨酸,再以此3种氨基酸人工配伍(配Ⅱ)。亦获同样药理效应。经正交试验证明色氨酸为主要有效成分,并求得最佳剂量比例。用碳粒廓清法证明配Ⅱ对小白鼠无增强单核巨噬细胞吞噬功能。

关键词: 冬虫夏草 氨基酸 镇静作用 色氨酸

A PHARMACOLOGICAL ANALYSIS OF THE AMINO ACID COMPONENTS OF CORDYCEPS SINENSIS SACC

SS Zhang; DS Zhang;TJ Zhu and XY Chen

Abstract:

An artificial complex of amino acids (C Ⅰ)was made by mixing 18 synthetic amino acids, according to the kinds and contents the amino acid contained in the natural *Cordyceps sinensis* Sacc., It showed the same sedative action as the natural *C. sinensis*, as indicated by the spontaneous activity inhibition in mice (photocell method).However, the action of commercial complex amino acid injection(12 X, total amino acid components are similar to C Ⅰ)was more attenuated than that of C Ⅰ. Comparing amino acid components of 12 X with C Ⅰ, the latter was found to contain 5 times as much glutamic acid, tryptophan and tyrosine as those of 12 X (tab 1). Another artificial amino acid complex (C Ⅱ) consisting of the above mentioned 3 amino acids, also showed the same sedative action. This suggests that tryptophan is the principal component by orthogonal test .However ,C Ⅱ did not enhance the phagocytic action of mononucleophagocyte as the natural *C. Sinensis* did in the clear rate test of carbon granule from mice serum.

Keywords: Amino acid Sedation *L*-Tryptophan *Cordyceps sinensis*

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