



叶豆丹, 赵雨, 王思明, 陈雨, 李晓华. 15个不同产地人参中4种酶的活力比较[J]. 中国现代应用药学, 2013, 30(3):264-267

15个不同产地人参中4种酶的活力比较

Comparison of Four Enzymes Activities in Ginseng from 15 Different Origins

投稿时间: 2012-04-22 最后修改时间: 2012-12-12

DOI:

中文关键词: [人参](#) [酶](#) [超氧化物歧化酶](#) [谷丙转氨酶](#) [葡萄糖磷酸异构酶](#) [延胡索酸酶](#)

英文关键词: [Radix Ginseng](#) [enzyme](#) [superoxide dismutase](#) [glutamic-pyruvic transaminase](#) [glucose phosphate isomerase](#) [fumarase](#)

基金项目:

作者	单位	E-mail
叶豆丹	长春中医药大学研发中心, 长春 130117	hong70790@163.com
赵雨*	长春中医药大学研发中心, 长春 130117	cnzhaoyu@yahoo.com.cn
王思明	长春中医药大学研发中心, 长春 130117	
陈雨	长春中医药大学研发中心, 长春 130117	
李晓华	长春中医药大学研发中心, 长春 130117	

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中文摘要:

目的 通过对15个不同产地的人参中4种酶活力进行测定, 为人参的鉴定和优选提供理论依据。方法 采用中性缓冲液提取粗酶液, 应用分光光度法对15个不同产地的人参中超氧化物歧化酶(Superoxide dismutase, SOD), 谷丙转氨酶(Glutamic-pyruvic transaminase, GPT), 葡萄糖磷酸异构酶(Glucose phosphate isomerase, GPI)和延胡索酸酶(Fumarase)4种酶的活力进行比较。结果 15批人参样品的SOD活力相差不大; GPT活力以安图县万宝镇活力最高, 是其他样品的2~3倍; 通化市集安县、临江市东北岔子村等10批样品的Fumarase活力明显低于安图县万宝镇、抚松县北岗镇等5批样品。结论 SOD、GPT、GPI、Fumarase的活力可以作为人参品种鉴定的评价指标。

英文摘要:

OBJECTIVE To measure the activities of four enzymes in Radix Ginseng from 15 different origins, in order to provide theoretical basis for the appraisal of ginseng. METHODS Neutral buffer solution was adopted to extract the enzyme solution of Radix Ginseng. Use spectrophotometry to test the activities of Superoxide dismutase (SOD), Glutamic-pyruvic transaminase (GPT), Glucose Phosphate Isomerase (GPI) and Fumarase. RESULTS There are little difference of the SOD activities from 15 batch of ginseng samples; the highest GPT activity of Ginseng sample which in Antu county Wanbao town is 2-3 times of other samples. Fumarase activity in Tonghua county Ji'an town, Linjiang city Dongbeichazi town and other 10 samples are significantly lower than the activities in Antu county WanBao town, Fuson county Beigang town and other 5 batch samples. CONCLUSION The activities of SOD, GPT, GPI and Fumarase can be used as the evaluating indicator of species identification of Radix Ginseng.

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