

台党参与不同栽培年限潞党参中党

参甙 I 含量研究

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摘要 利用薄层扫描法对不同栽培年限潞党参、野生及栽培台党参进行党参甙 I 含量测定比较,结果表明,潞党参含量随栽培年限增加有降低趋势,台党参比同龄潞党参含量略低,野生比栽培台党参含量低。

关键词 潞党参 台党参 党参甙 I

党参性味甘平,具补中益气,健脾益肺之功效,是传统补气药。我地区目前市售多为山西产人工栽培党参*Codonopsis pilosula* (Franch) Nannf.习称“潞党参”,其中产于山西五台山等地者称“台党参”。为探讨不同生长地区及不同栽培年限党参中水溶性专属成分党参甙 I 的含量变化规律,以指导生产,我们在此方面进行了初步研究。

1 实验材料

仪器:CS-930型薄层扫描仪(日本岛津),定量毛细管(Drummond USA),紫外检测器(日本岛津),硅胶GF₂₅₄薄层板(自制)。

对照品:党参甙 I,由日本带回,含量99%以上。

药材:1~3年生潞党参:山西长治栽培品,野生及家种台党参(2年生):采于山西五台山(均由本所中药室鉴定)。

试剂:硅胶GF₂₅₄,青岛海洋化工厂(薄层用),其他试剂均为分析纯。

2 不同产地及不同栽培年限党参中党参甙 I 含量测定结果

取试验用药材经低温干燥,粉碎后过60目筛,按文献[冯丽,等.中国中药杂志,1992,17(5):300]方法制备供试液,测定党参甙 I 含量,结果见表。

3 讨论

3.1 同批采得的潞党参其党参甙 I 含量随栽培年限增加有降低趋势。但2年及3年生样品含量相近。

3.2 栽培年限相同的台党参比潞党参中党参甙 I 含量略低,但台党参含量与冯丽等所报部分潞党参含量差别不大。

3.3 野生台党参比栽培台党参中党参甙 I 含量低,可能是野生品大部分为多年生所致,正好与不同栽培年限潞党参中党参甙 I 动态变化规律相吻合。

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表 样品测定结果

编号	样品	生长年限	含量(%)
1	栽培潞党参	1年	0.17
2	栽培潞党参	2年	0.12
3	栽培潞党参	3年	0.10
4	栽培潞党参	1年	0.12
5	栽培潞党参	3年	0.10
6	栽培台党参	2年	0.06
7	野生台党参	多年	0.05
8	栽培台党参	2年	0.07
9	野生台党参	多年	0.01

注:1,2,3,6,7号样品为1990年采集

4,5,8,9号样品为1991年采集

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Determination of Tanshenoside I in Taidangshen (*Codonopsis pilosula*) and Cultivated Ludangshen (*C. pilosula*) of Different Years Old

Dai Jing, Feng Li, Han Guiru et al

Amounts of tanshenoside I in cultivated Ludangshen of different years of cultivation history was determined by TLC densitometry in comparison with that in wildly grown Ludangshen and cultivated Taidangshen. Results showed that tanshenoside I in cultivated Ludangshen decreases with increased years of cultivation history while that in cultivated Taidangshen is slightly lower than that of Ludangshen of the same years of cultivation. Tanshenoside I in wild Taidangshen is also lower than that in cultivated Taidangshen.

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Study on Biological Effects of Songzike Acidic Polysaccharide

Hou Fangyu, Yu Qinghua, et al

The biological effects of Songzike acidic polysaccharide (ST90) were studied in vivo and vitro. It was found that ST90 had distinct antineoplastic, antibacterial and antiviral effects. It markedly inhibits proliferation of S180 solid tumor in mice and reduces the mortality of mice infected by *Salmonella typhimurium*, and shows a protective effect on FL cells infected with adv_1 , adv_2 , vsv and CB_1 .

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Protective Effect of Tea Polyphenol on Rat Myocardial Injury Induced by Isoproterenol

Tang Shengxing, Ye Ting, Zhao Zhengdong

Retreatment with tea polyphenol (TP) at a dose of 10mg/kg ip to rats five days before isoproterenol (ISO) challenge (1mg/kg sc, for two days), resulted in decreases of malondialdehyde concentration, creatine phosphokinase, lactic dehydrogenase (LDH) and LDH_1 activities, increased LDH_2/LDH_1 ratio and inhibited the extent of myocardial injury, similar to the action of propranol. At the same time TP decreased rat plasma renin activity. The results suggested that the mechanism by which TP protects heart from ISO-induced myocardial injury is due to its antioxygen free radical and inhibition of renin activities.

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Effects of Emodin on the Cytoplasmic free Ca^{2+} in Peritoneal Macrophages From Mice

Cui Rongfen, Lin Xiuzhen