

生物技术—研究报告

不同基因型蚕豆的蛋白质含量差异分析

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摘要:

蚕豆是青海重要的商品作物之一,随着青海蚕豆蛋白产业发展,对高蛋白蚕豆的需求增长比较快,研究不同基因型蚕豆在不同生态区的蚕豆蛋白质含量的差异,有利于按不同基因型蚕豆优势区域进行合理布局,保障青海蚕豆的有效供给和需求。采用紫外分光光度法分析结果表明:同一生态区同一类型大粒组不同基因型蚕豆的蛋白质含量差异不显著,而小粒组不同基因型蚕豆之间FE3、FE5、FE2和杂大豆与FE6、马牙的蛋白质含量差异极显著,但小粒蚕豆较大粒蚕豆的蛋白质含量高18.49%,不同生态区蚕豆蛋白质含量在品种间、环境间和品种与环境的交互效应差异极显著,蚕豆蛋白质含量随着海拔升高而降低,呈近似线性下降趋势。

关键词: 蚕豆; 蛋白质; 生态条件

Analysis of the Difference Protein Content of Different Genotypes Faba Bean

Abstract:

Faba Bean is one of important commercial crop in Qinghai, high protein varieties will increasing along with developing of Qinghai faba bean industry, it was propitious to distribute advantage area for high protein varieties of faba bean, to ensure effective provide and demand, which studied the protein content of different faba bean varieties in different ecology area. The analysis of the difference protein content of different genotypes faba bean by UV spectrophotometer, the results showed that the difference was remarkable between various genotypes faba bean in small seed types and not remarkable in large seed types, the protein content of large seed was higher 18.49% than small seed faba bean, the difference of protein content was extremely remarkable between different varieties, environment and it's interactive. The protein content of faba bean became lower along with altitude and approximately lines downtrend.

Keywords: faba bean protein ecology condition

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