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摘要: 通过种皮的透水性, 种皮结构的电镜扫描和酸蚀种子萌发, 对野生大豆种皮构造与种子休眠关系进行研究。结果表明: 野生大豆种子属于典型硬实, 栅栏层是引起种皮不透水的主要原因, 种脐是水分进入种子的主要通道, 酸蚀20~30 min能有效打破种皮的不透水性障碍。

Abstract: Seed is the foundation of multiply and continuation of seed plants population. Elucidation the seed dormancy reason of Glycine soja will provide the theoretical basis for protection and utilization of Glycine soja resource. The relationship between seed coat structure of Glycine soja and seed dormancy was studied through the water permeability experiments of the seed coat, SEM observation of the seed coat structure and germination experiment of the acid etched seeds. The results show that Glycine soja seed belonged to typical hard seed, and palisade layer was the main factor that caused the seed coat impermeable, hilum was the main channel through which water went into the seed, the impermeability barrier of seed coat could be effectively broken by 20-30 min acid etching.

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