

研究论文

评价油菜种子耐贮性人工老化方法的比较研究

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摘要 研究了4个油菜品种的成熟种子经40℃, 100%RH高温高湿、58℃±1℃热水和50%甲醇溶液老化处理后的发芽情况。结果表明:这3种人工老化处理的油菜种子的发芽势、发芽率、发芽指数和活力指数等的变化趋势与自然老化种子的相同, 均适用于评价油菜种子耐贮性的人工老化。但58℃±1℃热水和50%甲醇溶液处理比40℃, 100%RH高温高湿处理更合适, 其最适老化时间分别为10-15分钟和60-100分钟。

关键词 [油菜](#) [耐贮性](#) [人工老化](#) [发芽](#)

分类号

Comparative Study on Artificial Ageing Methods in Evaluating the Storability of Rape(*Brassica napus* L.)Seeds

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Abstract Rape seeds of four varieties were artificially aged using the methods of hot water(58℃±1℃), 50% methanol solution and high temperature and humidity (40℃, 100% RH), respectively. The changeable tendency of all aged seeds in germination potential, germination percentage, germination index and vigour index was similar to that of naturally aged seeds. But the methods of 58℃±1℃ hot water and 50% methanol solution were more suitable than that of 40℃ and 100%RH in evaluating the seed storability and the most appropriate ageing duration were 10-15 minutes and 60-100 minutes, respectively.

Key words [Rape seed](#) [Storability](#) [Artificially ageing](#) [Germination](#)

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