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PRIMING IN CRAMBE (CRAMBE ABYSSINICA) SEEDS

CAROLINA PUCCI DE MORAES¹; JULIANA JOICE PEREIRA LIMA²; CLÁUDIO CAVARIANI³; EDVALDO APARECIDO AMARAL DA SILVA⁴

^{1,2}Student at State University of São Paulo, São Paulo – SP, Brazil

^{3,4}Professor at State University of São Paulo, São Paulo – SP, Brazil

Abstract

The crambe belongs to the family Brassicaceae, it is a plant with short cycle, rustic, tolerant to drought and cold and still with high oil content in its seeds. The seed priming has the advantages of unifying and speeding the establishment of seedlings, and can provide the success of the implantation of the crop. Therefore, the objective was to evaluate the performance of crambe seeds submitted to different methodologies of priming. Two lots of crambe seeds of the cultivar FMS Brillhante were evaluated. The seeds were submitted to priming in water, where the seeds were placed between two sheets of blotting paper moistened with 12 mL of water in plastic boxes at 10 ° C for 5, 10 and 15 days. Priming in osmotic solution with PEG 6000 in potentials -0.5; -1.0; -1.5 and -2.0 MPa, where the seeds were soaked in paper with 3x the paper weight in PEG 6000 solution for 5, 10 and 15 days at 25 ° C. The physiological quality was evaluated by the germination test, the germination speed index, the first germination count and the mean germination time. Priming in water for a period of five days at 10°C can be indicated to increase the germination and germination speed of crambe seeds. The priming in osmotic solution with PEG 6000 was detrimental to the physiological quality of crambe seeds.

Key words: osmopriming, hydropriming, germination, vigor

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