



Production of Virus Free Seed Potatoes

By Dinesh C. Adhikari

LAP Lambert Academic Publishing Jul 2012, 2012. Taschenbuch. Book Condition: Neu. 226x151x20 mm. Neuware - Elimination of Potato virus X and Potato virus Y was reported from two potato cultivars viz. Multa and Petronese by meristem culture only and thermotherapy, followed by meristem culture. Meristems of size ranging from 0.1 mm to 0.4 mm were excised and cultured in liquid media viz. MS + 0.25 mg l-1 calcium pantothenate and incubated under 16 hr photo period at 24 + 10C. For thermotherapy, the potato tubers were incubated at 35oC for three weeks and followed by meristem culture. Meristems, sized 0.2 mm to 0.3 mm were found superior for both virus elimination and survival during thermotherapy and without thermotherapy PVY was eliminated easily then PVX. The plantlets developed from meristems were multiplied by performing nodal cutting in MS solid media supplemented with GA3 in different concentration. The media MS + 0.1 ppm GA3 was observed to be superior for multiplication. The variety petronese was observed to have more multiplication rate. Virus free plant lets were transplanted in the screen house and virus free pre-basic seed potatoes were obtained after 12 weeks of transplantation. 96 pp. Englisch.



READ ONLINE
[1.37 MB]

Reviews

Extensive guideline! Its this sort of excellent read. it had been writtern quite properly and helpful. You can expect to like just how the writer create this book.

-- **Mr. Gustave Gerhold**

This book will never be straightforward to start on reading through but quite enjoyable to learn. Better then never, though i am quite late in start reading this one. Your lifestyle span will probably be convert once you complete reading this publication.

-- **Dr. Kadin Hane DVM**