

Special requirements for hop plants to qualify as nuclear stock

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Eligible material	Any new or established variety or candidate material of potential new varieties can be entered. The progeny of nuclear stock is eligible as parent material to plant field-grown Elite permanent layer beds.
Growing conditions	<p>Nuclear stock plants must have been maintained in a suitably designed insect-proof glasshouse or gauzeshouse containing only hop nuclear stock plants or other hop material of equivalent tested status.</p> <p>Strict precautions should be taken to prevent the introduction of pests and diseases, especially those diseases listed in Annex 1. Quality pests and diseases such as red spider mite or powdery mildew should be kept at as low a level as practically possible. Aphids should be strictly controlled at all times. Records should be kept of all treatments.</p> <p>All plants must be grown singly in sterilised growing medium and in individual, permanently labelled containers. They must be kept free from contact with soil.</p> <p>Varieties sensitive to hop mosaic virus must be physically isolated from other varieties by insect-proof material.</p>
Pests and diseases	<p>At least every two years the nuclear stock mother plants must have been individually tested and found free from the diseases listed in Annex 1 using the test methods described. Regular visual inspections should be made.</p> <p>New candidate nuclear stock plants to be entered into the nuclear stock house must have been tested and found free from all the diseases listed in Annex 1 Part A (except hop latent carlavirus where freedom is optional).</p> <p>The diseases in Annex 1 Part B need not be tested for until licensed trial varieties are to be certified or approved under the PHPS.</p> <p>Any plants found to be infected with the diseases listed in Annex 1 or exhibiting suspicious symptoms should be removed immediately. Records should be kept of all plants removed.</p>
Documentation	<p>The Director or other person responsible for the production of the plants must provide documentary evidence to show that the material has been produced under the conditions described above and that all the necessary tests were carried out and no evidence of infection was found.</p> <p>This evidence must be provided to the purchaser of the nuclear stock material before it can be used as parent material to plant Elite permanent layer beds.</p>
Reference for further details	<p>EPPO Certification scheme for hops, EPPO Bulletin 27,175-183 (1997). Martin RR (Ed) 2004. Recommended procedures for detection of viruses in small fruit crops. Proceedings of Tenth International Symposium on Small Fruit Virus Diseases. Acta Hort. 656:199-207, 2004.</p>

