

Commission Implementing Directive 2014/21/EU of 6  
February 2014 determining minimum conditions and Union  
grades for pre-basic seed potatoes (Text with EEA relevance)

COMMISSION IMPLEMENTING DIRECTIVE 2014/21/EU  
of 6 February 2014

determining minimum conditions and Union grades for pre-basic seed potatoes  
(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Council Directive 2002/56/EC of 13 June 2002 on the marketing of seed potatoes<sup>(1)</sup>, and in particular Article 18(c) thereof,

Whereas:

- (1) Seed potatoes progressively accumulate diseases with each cycle of multiplication. Properly functioning seed potato production systems thus require healthy starting material that is multiplied with a minimal rate of degeneration.
- (2) Different national standards on the production of pre-basic seed potatoes have obstructed the marketing of those potatoes throughout the Union, and have impeded the functioning of the internal market. Therefore it is appropriate to establish minimum conditions under which pre-basic seed potatoes may be marketed throughout the Union. Those conditions should concern diseases, symptoms, defects and production requirements for pre-basic seed potatoes, and lots of those potatoes, to ensure the production and marketing of healthy and high quality pre-basic seed potatoes.
- (3) Those conditions should take into account the standard of United Nations Economic Commission for Europe (UNECE), concerning the marketing and commercial quality control of seed potatoes, as well as the relevant standards of the International Plant Protection Convention (IPPC) and the European and Mediterranean Plant Protection Organization (EPPO), in view of technical and scientific developments. Those standards aim at helping facilitate international trade, encouraging high quality production, improving profitability and protecting consumer interests.
- (4) In view of the production practices of suppliers, and the demand of the users of pre-basic seed potatoes, it is appropriate that the minimum conditions for pre-basic seed potatoes also include the possibility for marketing them as Union grades. Two Union grades should apply for pre-basic seed potatoes ('Union grade PBTC' and 'Union grade PB'), in line with the existing production practices concerning pre-basic seed potatoes of grade PBTC, and pre-basic seed potatoes of grade PB. Different conditions per grade should thus be adopted concerning diseases, symptoms, defects, production requirements and generations for those grades.

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- (5) In order to be effective, those rules should also set out provisions concerning official testing and official field inspections.
- (6) The measures provided for in this Directive are in accordance with the opinion of the Standing Committee on Seeds and Propagating Material for Agriculture, Horticulture and Forestry,

HAS ADOPTED THIS DIRECTIVE:

### Article 1

#### Definitions

For the purposes of this Directive, the following definitions shall apply:

- (1) ‘mother plant’ means an identified plant from which material is taken for propagation;
- (2) ‘micro-propagation’ means the practice of rapidly multiplying plant material to produce a large number of plants, using culture *in vitro* of differentiated vegetative buds or meristem taken from a plant.

### <sup>F1</sup>Article 2

#### Minimum conditions for pre-basic seed potatoes

1 Member States shall ensure that pre-basic seed potatoes satisfy the following minimum conditions:

- a they derive from mother plants which are free from the following pests: *Pectobacterium* spp., *Dickeya* spp., *Candidatus Liberibacter solanacearum*, *Candidatus Phytoplasma solani*, Potato spindle tuber viroid, Potato leaf roll virus, Potato virus A, Potato virus M, Potato virus S, Potato virus X, and Potato virus Y;
- b the number of growing plants not breeding true to the variety and the number of plants of a different variety together, shall not exceed 0,01 %;
- c the maximum number of field generations shall be four;
- d RNQPs, or symptoms caused by the respective RNQPs, shall not be present above the thresholds on the pre-basic seed potatoes as set out in the following table:

RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the growing plants for pre-basic seed potatoes
Blackleg ( <i>Dickeya</i> Samson <i>et al.</i> spp. [1DICKG]; <i>Pectobacterium</i> Waldee emend. Hauben <i>et al.</i> spp. [1PECBG])	0 %
<i>Candidatus Liberibacter solanacearum</i> Liefting <i>et al.</i> [LIBEPS]	0 %
<i>Candidatus Phytoplasma solani</i> Quaglino <i>et al.</i> [PHYPSO]	0 %
Mosaic symptoms caused by viruses and	0,1 %

symptoms caused by Potato leaf roll virus [PLRV00]	
Potato spindle tuber viroid [PSTVD0]	0 %
<b>RNQPs or symptoms caused by RNQPs</b>	<b>Threshold for the presence of RNQPs on the direct progeny of pre-basic seed potatoes</b>
Symptoms of virus infection	0,5 %

2 Member States shall provide that pre-basic seed potatoes may be marketed as ‘Union grades PBTC’ and ‘Union grade PB’, in accordance with the conditions set out in the Annex.

3 Compliance with the requirements of points (b) and (d) of paragraph 1 shall be established through official field inspections. In case of doubt, those inspections shall be supplemented by official tests on leaves.

Where methods of micro-propagation are used, compliance with point (a) of paragraph 1 shall be established by official testing, or testing under official supervision, of the mother plant.

Where methods of clonal selection are used, compliance with point (a) of paragraph 1 shall be established by official testing, or testing under official supervision, of the clonal stock.]

#### Textual Amendments

- F1** Substituted by [Commission Implementing Directive \(EU\) 2020/177 of 11 February 2020 amending Council Directives 66/401/EEC, 66/402/EEC, 68/193/EEC, 2002/55/EC, 2002/56/EC and 2002/57/EC, Commission Directives 93/49/EEC and 93/61/EEC and Implementing Directives 2014/21/EU and 2014/98/EU as regards pests of plants on seeds and other plant reproductive material \(Text with EEA relevance\).](#)

### *<sup>F1</sup>Article 3*

#### **Minimum conditions for lots of pre-basic seed potatoes**

Member States shall provide that lots of pre-basic seed potatoes shall satisfy the following minimum conditions:

- (a) presence of earth and extraneous matter shall not exceed 1,0 % by mass;
- (b) the number of potatoes affected by rots, other than ring rot or brown rot, shall not be present in a quantity exceeding 0,2 % by mass;
- (c) the number of potatoes with external blemishes, including misshapen or damaged tubers, shall not exceed 3,0 % by mass;
- (d) the number of potatoes affected by common scab over more than one third of their surface shall not exceed 5,0 % by mass;
- (e) shrivelled tubers due to excessive dehydration or dehydration caused by silver scurf shall not exceed 0,5 % by mass;

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- (f) lots of pre-basic seed potatoes shall comply with the following requirements concerning the presence of RNQPs, or diseases caused by the respective RNQPs as set out in the table:

<b>RNQPs or symptoms caused by RNQPs</b>	<b>Threshold for the presence of RNQPs on the lots of pre-basic seed potato</b>
<i>Candidatus Liberibacter solanacearum</i> Liefing <i>et al.</i> [LIBEPS]	0 %
<i>Ditylenchus destructor</i> Thorne [DITYDE]	0 %
Black scurf affecting tubers over more than 10 % of their surface as caused by <i>Thanatephorus cucumeris</i> (A.B. Frank) Donk [RHIZSO]	1,0 %
Powdery scab affecting tubers over more than 10 % of their surface as caused by <i>Spongospora subterranea</i> (Wallr.) Lagerh. [SPONSU]	1,0 %

- (g) the total number of potatoes, as referred to in points (b) to (f), shall not exceed 6,0 % by mass.]

#### Textual Amendments

- F1** Substituted by [Commission Implementing Directive \(EU\) 2020/177 of 11 February 2020 amending Council Directives 66/401/EEC, 66/402/EEC, 68/193/EEC, 2002/55/EC, 2002/56/EC and 2002/57/EC, Commission Directives 93/49/EEC and 93/61/EEC and Implementing Directives 2014/21/EU and 2014/98/EU as regards pests of plants on seeds and other plant reproductive material \(Text with EEA relevance\).](#)

#### Article 4

#### Transposition

1 Member States shall adopt and publish, by 31 December 2015 at the latest, the laws, regulations and administrative provisions necessary to comply with this Directive. They shall forthwith communicate to the Commission the text of those provisions.

They shall apply those provisions from 1 January 2016.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2 Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

### *Article 5*

#### **Entry into force**

This Directive shall enter into force on the twentieth day following that of its publication  
in the *Official Journal of the European Union*.

### *Article 6*

#### **Addressees**

This Directive is addressed to the Member States.

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## I<sup>F1</sup> ANNEX

### Conditions for placing on the market of pre- basic seed potatoes as Union grades PBTC and PB

- (1) The conditions for pre-basic seed potatoes of Union grade PBTC shall be as follows:
- (a) conditions concerning seed potatoes:
- (i) plants not breeding true to the variety, or plants of a different variety, shall not be present in the crop;
  - (ii) plants, including tubers, are produced through micro-propagation;
  - (iii) plants, including tubers, are produced in a protected facility and in a growing medium which is free from pests;
  - (iv) tubers shall not be multiplied beyond the first generation;
  - (v) plants shall comply with the following thresholds concerning the presence of RNQPs, or symptoms caused by the respective RNQP, as set out in the following table:

RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the growing plants for pre-basic seed potatoes of Union grade PBTC
Blackleg ( <i>Dickeya</i> Samson <i>et al.</i> spp. [1DICKG]; <i>Pectobacterium</i> Waldee emend. Hauben <i>et al.</i> spp. [1PECBG])	0 %
<i>Candidatus</i> Liberibacter <i>solanacearum</i> Liefting <i>et al.</i> [LIBEPS]	0 %
<i>Candidatus</i> Phytoplasma <i>solani</i> Quaglino <i>et al.</i> [PHYPSO]	0 %
Mosaic symptoms caused by viruses and symptoms caused by Potato leaf roll virus [PLRV00]	0 %
Potato spindle tuber viroid [PSTVD0]	0 %
RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the direct progeny of pre-basic seed potatoes of Union grade PBTC

Symptoms of virus infection	0 %.
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- (b) conditions concerning lots:
- (i) they shall be free from seed potatoes affected by rots;
  - (ii) they shall be free from seed potatoes affected by common scab;
  - (iii) they shall be free from seed potatoes excessively shrivelled due to dehydration;
  - (iv) they shall be free from seed potatoes with external blemishes, including misshapen or damaged tubers;
  - (v) lots of pre-basic seed potatoes shall comply with the following thresholds concerning the presence of RNQPs, or symptoms caused by the respective RNQPs as set out in the following table:

<b>RNQPs or symptoms caused by RNQPs</b>	<b>Threshold for the presence of RNQPs on the lots of pre-basic seed potatoes of Union grade PBTC by mass</b>
<i>Candidatus Liberibacter solanacearum</i> Liefing <i>et al.</i> [LIBEPS]	0 %
<i>Ditylenchus destructor</i> Thorne [DITYDE]	0 %
Black scurf as caused by <i>Thanatephorus cucumeris</i> (A.B. Frank) Donk [RHIZSO]	0 %
Powdery scab as caused by <i>Spongospora subterranea</i> (Wallr.) Lagerh. [SPONSU]	0 %.

- (2) The conditions for pre-basic seed potatoes of Union grade PB shall be as follows:

- (a) conditions concerning seed potatoes:
- (i) the number of plants not breeding true to the variety and the number of plants of a different variety together, shall not exceed 0,01 %;
  - (ii) plants shall comply with the following thresholds concerning the presence of RNQPs, or symptoms caused by the respective RNQPs, as set out in the following table:

<b>RNQPs or symptoms caused by RNQPs</b>	<b>Threshold for the presence of RNQPs on the growing plants for pre-basic seed potatoes of Union grade PB</b>
Blackleg ( <i>Dickeya</i> Samson <i>et al. spp.</i> [1DICKG]; <i>Pectobacterium</i> Waldee	0 %

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emend. Hauben <i>et al. spp.</i> [IPECBG])	
<i>Candidatus</i> Liberibacter solanacearum Liefiting <i>et al.</i> [LIBEPS]	0 %
<i>Candidatus</i> phytoplasma <i>solani</i> Quaglino <i>et al.</i> [PHYPSO]	0 %
Mosaic symptoms caused by viruses and symptoms caused by Potato leaf roll virus [PLRV00]	0,1 %
Potato spindle tuber viroid [PSTVD0]	0 %
<b>RNQPs or symptoms caused by RNQPs</b>	<b>Threshold for the presence of RNQPs on the direct progeny of pre-basic seed potatoes of Union grade PB</b>
Symptoms of virus infection	0,5 %;

(b) tolerances applicable to lots, as regards the following impurities, blemishes and diseases:

- (i) seed potatoes affected by rots, other than ring rot or brown rot, shall not exceed 0,2 % by mass;
- (ii) seed potatoes affected by common scab over more than one third of their surface, shall not exceed 5,0 % by mass;
- (iii) shrivelled tubers due to excessive dehydration or dehydration caused by silver scurf, shall not exceed 0,5 % by mass;
- (iv) seed potatoes with external blemishes, including misshapen or damaged tubers, shall not exceed 3,0 % by mass;
- (v) the presence of earth and extraneous matter shall not exceed 1,0 % by mass;
- (vi) lots of pre-basic seed potatoes shall comply with the following thresholds concerning the presence of RNQPs, or symptoms caused by the respective RNQPs as set out in the following table:

<b>RNQPs or symptoms caused by RNQPs</b>	<b>Threshold for the presence of RNQPs on the lots of pre-basic seed potatoes of Union grade PB by mass</b>
<i>Candidatus</i> Liberibacter solanacearum Liefiting <i>et al.</i> [LIBEPS]	0 %



<i>Ditylenchus destructor</i> Thorne [DITYDE]	0 %
Black scurf affecting tubers over more than 10 % of their surface as caused by <i>Thanatephorus cucumeris</i> (A.B. Frank) Donk [RHIZSO]	1,0 %
Powdery scab affecting tubers over more than 10 % of their surface as caused by <i>Spongospora subterranea</i> (Wallr.) Lagerh. [SPONSU]	1,0 %;

- (vii) the total percentage of seed potatoes covered by tolerances, as referred to in points (i) to (iv) and (vi), shall not exceed 6,0 % by mass.]

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(1) [OJ L 193, 20.7.2002, p. 60.](#)