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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)
(OJ L 38, 7.2.2014, p. 39)

Amended by:

		Official Journal		
		No	page	date
► <u>M1</u>	Commission Implementing Directive (EU) 2020/177 of 11 February 2020	L 41	1	13.2.2020

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(Text with EEA relevance)

*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.

▼M1*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 symptoms caused by Potato leaf roll virus [PLRV00]	0,1 %

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RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the growing plants for pre-basic seed potatoes
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
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.

*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;
- (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:

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RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the lots of pre-basic seed potato
<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.

▼ B*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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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> Liefing <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 %.

(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;

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- (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:

RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the lots of pre-basic seed potatoes of Union grade PBTC by mass
<i>Candidatus</i> Liberibacter solanacearum 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:

RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the growing plants for pre-basic seed potatoes of Union grade PB
Blackleg (<i>Dickeya</i> Samson <i>et al. spp.</i> [1DICKG]; <i>Pectobacterium</i> Waldee emend. Hauben <i>et al. spp.</i> [1PECBG])	0 %
<i>Candidatus</i> Liberibacter solanacearum Liefing <i>et al.</i> [LIBEPS]	0 %
<i>Candidatus</i> phytoplasma solani 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 %
RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the direct progeny of pre-basic seed potatoes of Union grade PB
Symptoms of virus infection	0,5 %;

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- (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:

RNQPs or symptoms caused by RNQPs	Threshold for the presence of RNQPs on the lots of pre-basic seed potatoes of Union grade PB by mass
<i>Candidatus</i> <i>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 %;

- (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.