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MEETING DOCUMENT

From:	General Secretariat of the Council
To:	Working Party on Genetic Resources and Innovation in Agriculture (Seeds, Propagating and Planting Materials)
Subject:	Meeting of the Working Party on Genetic Resources and Innovation in Agriculture (Seeds, Propagating and Planting Materials; PRM) on 12 and 13 February 2025 - Meeting document on agenda item 2

In view of the meeting of the Working Party on Genetic Resources and Innovation in Agriculture (Seeds, Propagating and Planting Materials; PRM) on 12 and 13 February 2025, delegations will find in annex the **revised version** of the working document to be used for the discussions on Articles 7 and 8, and Annexes II and III of the proposal on the production and marketing of plant reproductive material in the Union.

Part Aa of Annex II and III was accidentally missing from the previous version.

Article 7	Article 8
<p style="text-align: center;">Requirements for the production and marketing of pre-basic, basic and certified seed and material</p> <p>1. Pre-basic, basic and certified seed may only be produced and marketed within the Union, if all the following conditions are fulfilled:</p> <p>(a) the pre-basic, basic or certified seed it is practically free from quality pests;</p> <p>(b) it is:</p> <p>(i) marketed following official certification by the competent authorities, or certification by the professional operator under official supervision;</p> <p>(c) it is produced and marketed in accordance with the requirements set out in Part A and Aa of Annex II, and its compliance with those requirements is attested by the official label referred to in Article 15(1).</p> <p>2. Pre-basic, basic and certified material may only be produced and marketed within the Union, if all the following conditions are fulfilled:</p> <p>(a) the pre-basic, basic or certified material it is practically free from quality pests;</p> <p>(b) it is:</p> <p>(i) produced marketed following official certification by the competent authorities, or certification by the professional operator under official supervision;</p> <p>(c) it is produced and marketed in accordance with the requirements set out in Part B, Ba, C or E of Annex II, and its compliance with those requirements is attested by the official label referred to in Article 15(1).</p> <p>3. {The Commission is empowered to adopt delegated acts in accordance with Article 75, in order to amend Annex II. Those amendments shall adapt that Annex # to the scientific and technical developments of</p>	<p style="text-align: center;">Requirements for the production and marketing of standard seed and material</p> <p>1. Standard seed may only be produced and marketed within the Union, if all the following conditions are fulfilled:</p> <p>(a) it is practically free from quality pests;</p> <p>(b) it is produced and marketed:</p> <p>(i) under the responsibility of the professional operator;</p> <p>(c) it is produced and marketed in accordance with the requirements set out in Part A and Aa of Annex III, and its compliance with those requirements is attested by the operator's label referred to in Article 16.</p> <p>2. Standard material may only be produced and marketed within the Union, if all the following conditions are fulfilled:</p> <p>(a) it is practically free from quality pests;</p> <p>(b) it is produced and marketed:</p> <p>(i) under the responsibility of the professional operator with the exception of vine that may be produced or marketed as standard material only following examination by the competent authority;</p> <p>(c) it is produced and marketed in accordance with the requirements set out in Part B, Ba, C and E of Annex III, and its compliance with those requirements is attested by the operator's label referred to in Article 16.</p> <p>3. [...]</p> <p>4. The Commission is empowered to adopt delegated acts, in accordance with Article 75, in order to amend Annex III. Those amendments shall, to adapt that Annex the requirements referred to in paragraphs 1 and 2 to the scientific and technical developments and to the applicable</p>

international technical and scientific **applicable international** standards, and may concern the requirements for **one or more of** the following **elements**;

- (a) **production (sowing, and planting and field cultivation)** and production of pre-basic, basic and certified seed;
- (b) harvesting and post-harvesting of pre-basic, basic and certified seed;**
- (c) marketing of pre-basic, basic and certified seed;
- (d) **production (sowing, and planting and field cultivation)** and production of pre-basic, basic and certified material;
- (e) harvesting and post-harvesting of pre-basic, basic and certified material;
- (f) marketing of pre-basic, basic and certified material;
- (g) production of pre-basic, basic and certified material of **clones**, selected clones and polyclonal PRM;
- (ga) marketing of pre-basic, basic and certified material of **clones**, selected clones and polyclonal **mixtures PRM**;
- (h) production of pre-basic, basic and certified material produced by *in vitro* propagation;
- (i) marketing of pre-basic, basic and certified material produced by *in vitro* propagation.

4. [The Commission shall adopt implementing acts specifying the production and marketing requirements referred to in ~~Part A to E~~ of Annex II for certain genera, species or categories of PRM, and, where appropriate, for certain grades, classes, generations or other subdivisions of the category concerned. Those requirements may concern one or more of the following elements **for all or certain species**:

- (a) **specific rules for one or more of the** intended uses of the genera, species or the types of the PRM concerned;
- (b) production methods of PRM, including sexual and asexual reproduction and *in vitro* propagation;
- (c) conditions for sowing or planting;

international standards. These amendments **and** shall concern **requirements for one or more of** the following **elements**:

- (a) requirements for **production (sowing, and planting, and field cultivation)** and production of standard seeds;
- (b) harvesting and post-harvesting of standard seed;**
- (c) requirements for marketing of standard seeds;
- (d) requirements for **production (sowing, and planting, and field cultivation)** and production of standard material;
- (e) requirements for harvesting and post-harvesting of standard material;
- (f) requirements for the marketing of standard material;
- (g) requirements for production of **clones**, selected clones and polyclonal PRM of standard material **category**;
- (ga) requirements for marketing of **clones**, selected clones and polyclonal PRM of standard material **category**;
- (h) requirements for the production of standard material produced by *in vitro* propagation;
- (i) requirements for the marketing of standard material produced by *in vitro* propagation.

5. The Commission shall adopt implementing acts specifying the production and marketing requirements referred to in ~~Part A to E~~ of Annex III for certain genera or species of standard seed or material **PRM**. Those requirements shall concern one or more of the following elements **for all or certain species**:

- (a) **specific rules for one or more of the** intended uses of the genera, species or the types of the PRM concerned;
- (b) production methods of PRM, including sexual and asexual reproduction and *in vitro* propagation;
- (c) conditions for sowing or planting;

- (ca) previous cropping and isolation distances;
- (d) ~~{open field or in~~ greenhouse cultivation};
- (e) ~~{~~harvesting and post-harvesting};
- (ea) germination rates, purity and content of other species ~~among which *Avena fatua*~~, moisture, vigour, presence of soil or extraneous matter;
- (eb) certification methods of PRM, including the application of bio-molecular or other technical methods, as well as their approval and use, and the listing of approved methods in the Union;
- (ec) the conditions for rootstocks and other parts of plants of genera or species other than those listed in Annex I, or their hybrids, if propagating material of the genus or species listed in Annex I or their hybrids is grafted onto them;
- (ed) conditions for the production of ~~{true}~~ seeds from fruit plants, ~~from seed~~ potatoes [or vine];
- (f) conditions for the production of fruit plants, [vine] or seed potatoes from seeds.

Those implementing acts shall be adopted in accordance with the examination procedure set out in Article 76(2), **They may be amended** in order to adapt **them** to the **scientific and technical** developments of the relevant **and applicable** international ~~technical and scientific~~ standards. **Those implementing acts may additionally set out more stringent production and marketing requirements to be applicable in certain parts of the Union territory, if so required by the agro-climatic conditions, risk of spreading of noxious weeds, or other special conditions and needs of certain areas.**

The first such **Implementing acts for each of the requirements listed above** shall be adopted not later than [36 months from the date of the entry into force of this Regulation/any other date].

- (ca) previous cropping and isolation distances;
- (d) open field or greenhouse cultivation;
- (e) harvesting and post-harvesting;
- (f) germination rates, purity and content of other species ~~among which *Avena fatua*~~, moisture, vigour, presence of soil or extraneous matter;
- (g) the application of bio-molecular or other technical methods, as well as their approval and use, and the listing of approved methods in the Union;
- (h) the conditions for rootstocks and other parts of plants of genera or species other than those listed in Annex I, or their hybrids, if propagating material of the genus or species listed in Annex I or their hybrids is grafted onto them;
- (i) conditions for the production of ~~{true}~~ seeds from fruit plants, ~~from seed~~ potatoes [or vine];
- (j) conditions for the production of fruit plants, [vine] or seed potatoes from seeds.

Those implementing acts shall be adopted in accordance with the examination procedure set out in Article 76(2), **They may be amended** in order to adapt **them** to the **scientific and technical** developments of the relevant **and applicable** international ~~technical and scientific~~ standards. **Those implementing acts may additionally set out more stringent production and marketing requirements to be applicable in certain parts of the Union territory, if so required by the agro-climatic conditions, risk of spreading of noxious weeds, or other special conditions and needs of certain areas.**

The first such **Implementing acts for each of the requirements listed above** shall be adopted not later than [36 months from the date of the entry into force of this Regulation/any other date].

ANNEX II	ANNEX III
<p>REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF PRE-BASIC, BASIC AND CERTIFIED SEEDS AND MATERIAL AS REFERRED TO IN ARTICLE 7</p>	<p>REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF STANDARD SEED AND MATERIAL AS REFERRED TO IN ARTICLE 8</p>
<p>Table of contents</p> <p>Section 1 — General requirements:</p> <p>PART A seeds of agricultural and vegetable species, <u>and true potato seed</u></p> <p>PART Aa seed of fruit plant species, <u>and</u> vine and true seed of potatoes</p> <p>PART B material of [agricultural, vegetable and] fruit plant species, and vine, <u>including selected clones and polyclonal PRM</u></p> <p>PART Ba seed potatoes <u>and other material of potatoes</u></p> <p>Section 2 — Specific requirements:</p> <p>PART C material of selected clones and polyclonal selection</p> <p>PART D [...]</p> <p>PART E material produced by <i>in vitro</i> propagation</p>	<p>Table of contents</p> <p>Section 1 — General requirements:</p> <p>PART A seeds of agricultural and vegetable species, <u>and true potato seed</u></p> <p>PART Aa seed of fruit plant species, <u>and</u> vine and true seed of potatoes of conservation varieties</p> <p>PART B material of [agricultural,] vegetable and fruit plant species, and vine, <u>including polyclonal PRM</u></p> <p>PART Ba seed potatoes of conservation varieties <u>and other material of potatoes</u></p> <p>Section 2 — Specific requirements:</p> <p>PART C material of selected clones and polyclonal selection</p> <p>PART D [...]</p> <p>PART E material produced by <i>in vitro</i> propagation</p>
<p style="text-align: center;">SECTION 1 GENERAL REQUIREMENTS</p>	<p style="text-align: center;">SECTION 1 GENERAL REQUIREMENTS</p>
<p style="text-align: center;">PART A REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF <u>PRE-BASIC, BASIC AND CERTIFIED SEEDS OF AGRICULTURAL AND VEGETABLE SPECIES, AND TRUE POTATO SEED</u></p> <p>1. Requirements for the production of pre-basic, basic and certified seeds of agricultural and vegetable species, and true potato seed</p> <p>A. Sowing or planting:</p> <p>(a) The variety <u>identity</u> of the seed sown, including where applicable mother plants, shall be <u>determined</u> identified through an official label or a label issued <u>by the competent authority or</u> by the professional operator, and shall be recorded to ensure its traceability. The label, or the records on the mother plant, shall be retained by the professional operator until the issuance of the official label of the marketed seed.</p>	<p style="text-align: center;">PART A REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF <u>STANDARD SEED OF AGRICULTURAL AND VEGETABLE SPECIES, AND TRUE POTATO SEED</u></p> <p>1. Requirements for the production of standard seed of <u>agricultural and vegetable species, and true potato seed</u></p> <p>A. Sowing or planting:</p> <p>(a) The variety <u>identity</u> of the seed sown, including where applicable, mother plants, shall be determined <u>and recorded</u> to ensure its traceability. The label of the seed, or the records on the mother plant, shall be kept at least for 2 years by the professional operator.</p>

- (b) The previous cropping of the field shall be compatible with the production of seed of the species, variety and category of the crop, and the field shall be sufficiently free from ~~such~~ plants, which may have remained from previous cropping (volunteers).
- (c) The ~~mother plants or seed shall be planted and/or sown~~n in a way, ~~which~~ **that** ~~assures~~ **ensures**:
 - (i) sufficient distance from pollen sources of the same **genus**, species and/or different varieties, from any undesirable foreign pollination, ~~so as to avoid cross pollination with other crops, where applicable;~~ and
 - (ii) ~~an appropriate source and level of pollination to ensure the subsequent reproduction, where applicable.~~
- ~~(d) The quality of soil, substrates, mother plants and the immediate environment shall be inspected to avoid presence of pests or their vectors.~~
- (e) [...]
- ~~(f) Where appropriate, the production of seeds shall take place separately from the cultivation of seeds belonging to the same genera or species not intended for seed production, to ensure the fulfillment of the requirements applicable only for the PRM concerned.~~
- (g) Where applicable, **plants derived from** *in vitro* propagation may ~~also~~ be used for the reproduction of seeds.

B. Field cultivation:

- (a) **The field crop shall have sufficient varietal identity and varietal purity.**
It shall be ensured that plants of other species, other varieties, or plants that are obviously differing from the variety in one or more characteristics from the variety description ('off-type'), in the field, are absent. Where this is not possible due to the characteristics of the species concerned, they shall be present up to the lowest possible level.
In the case of presence of off-types or other plant species ~~or varieties during the cultivation stage, or during seed processing,~~

- (b) The previous cropping of the field shall ~~not have been~~ incompatible with the production of seed of the species and variety of the crop, and the field shall be sufficiently free from ~~such~~ plants, which may have remained from previous cropping (volunteers).
- (c) The ~~mother plants or seed shall be planted and /or sown~~n in a way that ~~there is~~ **ensures**:
 - (i) sufficient distance from pollen sources of the same **genus**, species and/or the different varieties, ~~in accordance with isolation rules determined on the basis of botanical characteristics for each species and breeding techniques, to ensure protection from any undesirable foreign pollination,~~ and to avoid cross pollination with other crops, where applicable; and
 - (ii) ~~an appropriate source and level of pollination to ensure the subsequent reproduction, where applicable.~~
- ~~(d) The quality of soil, substrates, mother plants and the immediate environment shall be inspected to avoid presence of pests or their vectors.~~
- (e) [...]
- ~~(f) Where appropriate, the production of seeds shall take place separately from the cultivation of seeds belonging to the same genera or species not intended for seed production, to ensure health of the material concerned.~~
- (g) Where applicable, **plants derived from** *in vitro* propagation may ~~also~~ be used for the reproduction of seeds.

B. Field ~~production~~ **cultivation**:

- (a) **The field crop shall have sufficient varietal identity and varietal purity.**
It shall be ensured that ~~off types~~ **plants of other species, other varieties, or plants that are obviously differing from the variety in one or more characteristics from the variety description ('off-type')**, in the field, are absent. Where this is not possible due to the characteristics of the species concerned, they shall be present up to the lowest possible level.

appropriate treatment and/or elimination shall be applied to ensure varietal identity and purity of the seed, and to avoid the presence of any undesirable species.

- ~~(b) The plants shall be treated or excluded as a source of PRM in case of positive test results or visual symptoms of pests, or significant defects likely to impair the quality of the seeds.~~
- ~~(c) [...]~~
- ~~(d) The mother plants shall be cultivated, in all stages of development in such a way to enable the production of seeds, and permit their identification with the official description of their variety. Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used.~~
- (e) All crops in the field shall be inspected officially or under official supervision at their relevant growth stage(s), at the relevant frequency and with the relevant methods, as appropriate, for the species concerned to verify the respective requirements. ~~The methods for inspections shall be in accordance with the applicable international standards.~~ If it is not possible to remove or separate non-compliant plants during the growing phase, the entire field shall be rejected for seed production, **or, if possible, shall be used for the production of seed belonging to a lower category or generation**, unless the undesirable seeds can be mechanically separated at a later stage.

C. Harvesting and post-harvesting:

- (a) The seed shall be harvested **in a way that** ~~in bulk or as individual plants, as appropriate, to ensure~~ its identity, purity and traceability.
- (b) A sample of seed shall be taken **officially or under official supervision** from each lot. The sample size and the sampling intensity, equipment and method shall be appropriate for the species concerned ~~and in accordance with the applicable international standards.~~
- (c) ~~All~~ **A** seed samples shall be subjected to **official** laboratory testing, **or laboratory testing under official supervision** to ensure the fulfilment of the quality requirements for the respective species. Laboratory testing shall be carried out in accordance with methods, equipment and growing media

~~In the case of presence of off-types or other plant species, or varieties, during the cultivation stage, or during seed processing, appropriate treatment and/or elimination shall be applied to ensure varietal identity and purity of the seed, and to avoid the presence of any undesirable species.~~

- ~~(b) The plants shall be treated or excluded as a source of PRM in case of positive test results or visual symptoms of pests or significant defects likely to impair the quality of the seed.~~
- ~~(c) [...]~~
- ~~(d) The mother plants shall be cultivated, in all stages of development, in such a way to permit their identification and verification of compliance with the official description of their variety. Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used.~~
- (e) All crops in the field shall be checked at their relevant growth stage(s), at the relevant frequency ~~and with the relevant methods, as appropriate, for the species concerned to verify the respective requirements. The methods for inspections shall be such to ensure the reliability of the observations.~~ If it is not possible to remove or separate non-compliant plants during the growing phase, the entire field shall be rejected for seed production, ~~unless the undesirable seeds can be mechanically separated at a later stage.~~

C. Harvesting and post-harvesting:

- (a) The seed shall be harvested in **a way that** ~~bulk or as individual plants, as appropriate, to ensure~~ its identity, purity and traceability.
- (b) A sample of seed shall be taken from each lot and tested ~~in a laboratory~~ to ensure the fulfilment of the quality requirements for the respective species, ~~including germination. Testing shall include, where appropriate, retesting of germination rate after a certain period appropriate to the species concerned.~~
- ~~(c) Seed lots shall be subject to risk-based official post-control testing to verify the compliance with:~~
 - (i) ~~their varietal identity; and~~

appropriate for the species concerned, and in accordance with the applicable international standards. Testing shall include, where appropriate, retesting of germination rate after a certain period appropriate to the species concerned.

- (d) ~~The seed lots belonging to the pre-basic, basic, or certified category that will be used for the production of further seed generations, and the seed lots belonging to a certified category that will be no longer multiplied, are subject to risk-based official pre and post control plot testing by the competent authority to verify the compliance with:~~
- (i) ~~their varietal identity; and~~
 - (ii) ~~the standards of the minimum varietal purity;~~
 - (iii) ~~[...]~~

2. Requirements for the marketing of pre-basic, basic and certified seeds of agricultural and vegetable species, and true potato seed

The seed shall fulfil all of the following quality requirements, depending on the characteristics of each genus or species and the category concerned:

- (a) have a minimum **sufficient** germination **[that shall be regularly confirmed through retesting]**;
- (b) have a maximum content of hard seed ~~to allow an appropriate number of plant per square metre;~~
- (c) have a minimum **analytical** purity ~~to secure the highest level of varietal identity;~~
- (d) have ~~an~~ maximum **appropriate** moisture content ~~to ensure the preservation of the material during processing, storage and making available on the market;~~
- (e) have a maximum content of seeds of other genera or species ~~to ensure the lowest presence of undesirable plants in the lot;~~
- (f) [...]
- (g) have a maximum presence of soil or extraneous matter ~~and technical impurities; and~~
- (h) be **practically** free from specific **significant** defects and damages ~~to ensure the quality and health of the material.~~

- (ii) ~~the standards of the minimum varietal purity.~~
- (iii) [...]
- (iv) [...]

2. Requirements for the marketing of standard seed of agricultural and vegetable species, and true potato seed

The seed shall fulfil all of the following quality requirements, depending on the characteristics of each genus or species:

- (a) have ~~at least a~~ minimum **sufficient** germination **[that shall be regularly confirmed through retesting]**;
- (b) have ~~at most a~~ maximum content of hard seed, ~~to allow an appropriate number of plants per square metre;~~
- (c) have ~~at least a~~ minimum **analytical** purity, ~~to secure the appropriate level of varietal identity;~~
- (d) have ~~at most a~~ maximum **an appropriate** moisture content, ~~to ensure the preservation of the material during processing, storage and making available on the market;~~
- (e) have ~~at most a~~ maximum content of seeds of other genera or species, ~~to ensure the lowest presence of undesirable plants in the lot;~~
- (f) [...]
- (g) have a maximum presence of soil or extraneous matter, ~~to prevent fraudulent practices and technical impurities; and~~
- (h) be **practically** free from specific **significant** defects and damage ~~to ensure the quality and health of the material.~~

PART Aa

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF PRE-BASIC, BASIC AND CERTIFIED SEED OF FRUIT PLANT SPECIES, AND VINE AND TRUE SEED OF POTATOES

1. Requirements for the production of pre-basic, basic and certified seed of fruit plant species, and vine ~~and true seed potatoes~~
- A. Sowing or planting:
- (aa) ~~The variety identity of the seed sown, including where applicable mother plants, shall be determined identified through an official label or a label issued by the competent authority or by the professional operator, and shall be recorded to ensure its their traceability. The label of the seed, or the records on the mother plant, shall be retained by the professional operator until the issuance of the official label of the marketed seed;~~
- (a) The mother plants and, where appropriate, the pollinator plants shall be planted in a way that:
- (i) there is sufficient distance from other plants of the same **genus, species, and/or different varieties**, determined by the botanical characteristics and breeding techniques and as appropriate for the category of the material, to ensure protection from any undesirable foreign pollination, and to avoid cross pollination with other crops; and
- (ii) planting densities are adequate to allow plants to be observed individually.
- (b) ~~Where appropriate, the cultivation of material shall take place separately from the cultivation of material belonging to the same genera or species not intended for seed production.~~
- (c) Where applicable, plants derived from *in vitro* propagation may be used for the production of seed.**
- B. Field cultivation:
- (a) ~~During all stages of cultivation, PRM shall be kept separate from each other.~~
- (b) ~~PRM satisfying the requirements of a given category shall not be mixed with PRM of other categories.~~

PART Aa

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF STANDARD SEED OF FRUIT PLANT SPECIES, AND VINE AND TRUE SEED OF POTATOES FROM CONSERVATION VARIETIES

1. Requirements for the production of standard seed of fruit plant species, ~~and vine, and true seed potatoes from conservation varieties~~
- A. Sowing or planting:
- (aa) The identity of mother plants shall be determined and recorded to ensure its traceability.**
- (a) The mother plants and, where appropriate, the pollinator plants shall be planted in a way that:
- (i) there is sufficient distance from other plants of the same genera **genus, or species, and/or different varieties**, determined by the botanical characteristics and breeding techniques and as appropriate for the category of the material, to ensure protection from any undesirable foreign pollination, and to avoid cross pollination with other crops; and
- (ii) planting densities are adequate to allow plants to be observed individually.
- (b) ~~Where appropriate, the cultivation of material shall take place separately from the cultivation of material belonging to the same genera or species not intended for seed production.~~
- (c) Where applicable, plants derived from *in vitro* propagation may be used for the production of seed.**
- B. Field cultivation:
- (a) ~~During all stages of cultivation, PRM shall be kept separate from each other.~~
- (b) ~~PRM satisfying the requirements of a given category shall not be mixed with material of other categories.~~

- ~~(c) The flowering mother plant shall be subject to self-pollination or cross-pollination with pollen from the surrounding pollinator plants, as appropriate for the genera or species concerned.~~
- (d) Off-types and deformed or damaged **mother** plants shall be disposed of at all stages of cultivation in order to ensure trueness to the identity of the variety, or for plants not belonging to a variety, to ensure the trueness to the identity of the species to which they belong, their sufficient purity and efficient production.
- (e) Mother plants and pollinator plants shall be excluded as a source of seeds in case of significant defects likely to impair the quality of seeds.
- (f) Mother plants shall be cultivated, in all stages of development, in such a way to enable the production of seeds and to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. ~~Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used.~~ In the case of mother plants and pollinator plants not belonging to a variety, ~~that~~ **the** verification of compliance with the official description or the officially recognised description shall concern the species to which those mother plants and pollinator plants belong.
- (g) Mother plants and pollinator plants shall be inspected **officially or under official supervision** at their relevant growth stage(s), at the relevant frequency and with the relevant methods as appropriate for the genera or species concerned **to verify the respective requirements.**

C. Harvesting and post-harvesting:

- ~~(c) The flowering mother plant shall be subject to self-pollination or cross-pollination with pollen from the surrounding pollinator plants, as appropriate for the genera or species concerned.~~
- (d) Off-types and deformed or damaged **mother** plants shall be disposed of at all stages of cultivation in order to ensure trueness to the identity of the variety, or for plants not belonging to a variety, to ensure the trueness to the identity of the species to which they belong, their sufficient purity and efficient production.
- (e) Mother plants and pollinator plants shall be excluded as a source of seeds in case of **significant** defects **likely to impair the quality of seed.**
- (f) Mother plants shall be cultivated, in all stages of development, in such a way to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. ~~Where the official description or officially recognised description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used.~~ In the case of mother plants and pollinator plants not belonging to a variety, ~~that~~ **the** verification of compliance with the official description or the officially recognised description shall concern the species to which those mother plants and pollinator plants belong.
- (fa) ~~All crops in the field~~ **Mother plants and pollinator plants** shall be inspected **checked** at their relevant growth stage(s), at the relevant frequency ~~and with the relevant methods~~, as appropriate, for the **genera or** species concerned to verify the respective requirements. ~~The methods for inspections shall be such to ensure the reliability of the observations. If it is not possible to remove or separate non-compliant plants during the growing phase, the entire field shall be discarded for seed production, unless the undesirable seeds can be mechanically separated at a later stage.~~
- (g) [...]
- (h) [...]
- (i) [...]

C. Harvesting and post-harvesting:

(ga) The seed shall be harvested in a way that ensures its identity, purity and traceability.

- (h) The sample to be drawn from a lot shall have the appropriate minimum size for determining the fulfilment of the quality requirements for the respective genera or species. The intensity, equipment and method of sampling shall be appropriate for the genera or species concerned ~~and in accordance with the applicable international standards.~~
- (i) Testing shall be carried out in accordance with the methods, equipment and growing media appropriate for the genera or species concerned, ~~and in accordance with the applicable international standards,~~ to ensure that the quality requirements have been fulfilled.

2. Requirements for the marketing of pre-basic, basic and certified seed of fruit plant species, ~~and vine and true seed potatoes~~

The seed shall fulfil ~~all~~ of the following quality requirements, depending on the characteristics of each genus or species, and the category concerned:

- ~~(a) belong to a variety or, in the case of seed not belonging to a variety, to a species;~~
- (b) have minimum **sufficient** germination; and
- (c) be practically free from significant defects and damages ~~to ensure the quality of the seeds.~~

(a) The seed shall be harvested in a way that ensures its identity, purity and traceability.

(b) A sample of seed shall be taken from each lot and tested to ensure the fulfilment of the quality requirements for the respective genera or species.

2. Requirements for the marketing of standard seed of fruit plant species, ~~and vine, and true seed of potatoes from conservation varieties~~

The seed shall fulfil ~~all~~ of the following quality requirements, depending on the characteristics of each genus or species and the category concerned:

- ~~(a) belong to the variety and, in the case of seeds not belonging to a variety, to the species;~~
- (b) have minimum **sufficient germination**;
- (c) be practically free from significant defects and damages ~~to ensure the quality of the seeds.~~

PART B

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF MATERIAL OF [AGRICULTURAL, VEGETABLE AND] FRUIT PLANT SPECIES, AND VINE, INCLUDING SELECTED CLONES AND POLYCLONAL PRM

1. Requirements for the production of pre-basic, basic and certified material of [agricultural, vegetable and] fruit plant species, and vine, including selected clones and polyclonal PRM
- A. Sowing or planting:
 - (a) The identity of the material, including, where applicable, mother plants or seed sown, shall be determined ~~through an official label or a label issued by the competent authority or~~ by the professional operator, and **shall be** recorded by the professional operator to ensure its **their** traceability. The label of the material after the marketing of that material, or the records on the mother plant, shall be kept by the professional operator for at least five years.
 - (b) The material, **mother plants or seed** shall be planted **or sown** in a way that:
 - (i) ensures freedom from infection ~~through~~ **from** and any possible sources throughout the production process;
 - (ii) there is sufficient distance from other plants of the same genera, or species, determined on the basis of botanical characteristics and breeding techniques of each species, and as appropriate for the category of the material, to ensure protection from any undesirable foreign pollination and to avoid cross-pollination with other crops; and
 - (iii) planting densities are adequate to allow plants or crops to be observed adequately.
 - (c) The production of material shall take place separately from the cultivation of material belonging to the same genera or species not intended for PRM production.
 - (d) **Where applicable, plants derived from *in vitro* propagation may be used for the production of material.**

PART B

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF STANDARD MATERIAL OF [AGRICULTURAL,] VEGETABLE AND FRUIT PLANT SPECIES AND VINE, INCLUDING POLYCLONAL PRM

1. Requirements for the production of standard material of [agricultural,] vegetable and fruit plant species, and vine, including polyclonal PRM
- A. Sowing or planting:
 - (a) The identity of the material, including, where applicable, mother plants or seed sown, shall be determined ~~through an official label or a label issued by the professional operator, and~~ **shall be** recorded by the professional operator to ensure its **their** traceability. The label of the material after the marketing of that material, or the records on the mother plant, shall be kept by the professional operator.
 - (b) [...]
 - (b) **The material, mother plants or seed shall be planted or sown in a way that ensures freedom from infection from any possible source throughout the production process.**
 - (i) [...]
 - (ii) there is sufficient distance from other plants of the same genera or species, determined on the basis of botanical characteristics and breeding techniques of each species, and as appropriate for the category of the material, to ensure protection from any undesirable foreign pollination and to avoid cross-pollination with other crops; and
 - (iii) planting densities are adequate to allow plants to be observed individually.
 - (c) Where appropriate, the cultivation of material shall take place separately from the cultivation of material belonging to the same genera or species not intended for PRM production.
 - (d) **Where applicable, plants derived from *in vitro* propagation may be used for the production of material.**

- B. Field cultivation:
- (aa) The field crop shall have sufficient varietal identity and varietal purity.**
- (a) ~~During all stages of cultivation, PRM of different categories shall be kept separate from each other.~~
- (b) ~~PRM satisfying the requirements for a given category shall not be mixed with material of other categories.~~
- (c) Off-types and deformed or damaged **mother plants and material** shall be disposed of at all stages of cultivation.
- (d) ~~Mother plants shall be treated or excluded as a source of PRM in case of positive test results or visual symptoms of pests or significant defects likely to impair the quality of the material.~~
- (e) Mother plants **and material** shall be cultivated, in all stages of development, in such a way to enable the production of **PRM material**, and to permit their identification and verification of compliance with the official description or the officially recognised description of their variety, **selected clone or polyclonal PRM**. ~~Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used. In the case of mother plants and material not belonging to a variety, that the~~ verification of compliance with the official description or the officially recognised description shall concern the species to which those mother plants **and material** belong.
- (f) Mother plants **and material** shall be inspected **officially or under official supervision** at their relevant growth stage(s), at the relevant frequency and with the relevant methods, ~~including biomolecular techniques,~~ as appropriate for the genera or species concerned **to verify the respective requirements**.

C. Harvesting and post-harvesting:

(fa) The material shall be harvested in a way that ensures its identity, purity and traceability.

- B. Field cultivation:
- (aa) The field crop shall have sufficient varietal identity and varietal purity.**
- (a) ~~During all stages of cultivation, PRM shall be kept separate from each other.~~
- (b) [...]
- (c) Off-types and deformed or damaged **mother plants and material** shall be disposed of at all stages of cultivation.
- (d) ~~Mother plants shall be treated or excluded as a source of PRM in case of positive test results or visual symptoms of pests or significant defects likely to impair the quality of the PRM.~~
- (e) Mother plants **and material** shall be cultivated, in all stages of development, in such a way to **enable the production of material, and to** permit their identification and verification of compliance with the official description or the officially recognised description of their variety, **or polyclonal PRM**. ~~Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used. In the case of mother plants and material not belonging to a variety, that the~~ verification of compliance with the official description or the officially recognised description shall concern the species to which those mother **and material** plants belong.
- (ea) ~~All crops Mother plants and material in the field shall be inspected checked~~ at their relevant growth stage(s), at the relevant frequency ~~and with the relevant methods,~~ as appropriate, for the **genera or** species concerned to verify the respective requirements. ~~The methods for inspections shall be such to ensure the reliability of the observations.~~
- (f) [...]
- (g) [...]
- (h) [...]
- C. [...]

C. Harvesting and post-harvesting:

The material shall be harvested in a way that ensures its identity, purity and traceability.

(g) The sample to be drawn **officially or under official supervision** from a lot shall have the appropriate minimum size for determining the fulfilment of the quality requirements for the respective genera or species. The intensity, equipment and method of sampling shall be appropriate for the genera or species concerned ~~and in accordance with the applicable international standards.~~

(h) **Official testing or testing under official supervision** shall be carried out in accordance with the methods, equipment and growing media appropriate for the genera or species concerned, ~~and in accordance with the applicable international standards,~~ to ensure that the quality requirements have been fulfilled.

C. [...]

2. Requirements for the marketing of pre-basic, basic and certified material of [agricultural, vegetable and] fruit plant species, and vine, including selected clones and polyclonal PRM

The material shall fulfil all of the following requirements, depending on the characteristics of each genus or species, and the category concerned:

- (a) have minimum **sufficient** vigour and, where applicable, specific grading, ~~to ensure the appropriateness of the material and sufficient homogeneity of the lot for planting; and~~
- (b) be practically free from significant defects **and damages** likely to impair the quality of the material.

In the case of polyclonal PRM, the mixture of genotypes constituting the polyclonal PRM shall be made before the final packaging of that PRM and shall include identical proportions of all genotypes that constitute the polyclonal PRM.



2. Requirements for the marketing of standard material of [agricultural,] vegetable and fruit plant species and vine, including polyclonal PRM

The material shall fulfil all of the following requirements, depending on the characteristics of each genus or species, ~~and the category~~ concerned:

- (a) have minimum **sufficient** vigour and, where applicable, specific grading, ~~to ensure the appropriateness of the material and sufficient homogeneity of the lot for planting;~~
- (b) be practically free from significant defects **and damages** likely to impair the quality of the material;

In the case of polyclonal PRM, the mixture of genotypes constituting the polyclonal PRM shall be made before the final packaging of that PRM and shall include identical proportions of all genotypes that constitute the polyclonal selection.

PART Ba

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF PRE-BASIC, BASIC AND CERTIFIED SEED POTATOES AND OTHER MATERIAL OF POTATOES

1. **Requirements for the production of pre-basic, basic and certified seed potatoes and other material of potatoes**
 - A. Sowing or planting:
 - (a) The identity of the material, including, where applicable, mother tubers or seed sown, shall be determined through an official label or a label issued by the competent authority or the professional operator, and **shall be** recorded by the professional operator to ensure its traceability. The label of the material after the marketing of that material, or the records on the mother plant, shall be kept by the professional operator.
 - (b) The material shall be planted in a way that:
 - (i) the pre-basic minituber is maintained in facilities that ensures freedom from infection through aerial vectors and **from** any other possible sources throughout the production process; and
 - (ii) [...]
 - (iii) planting densities are adequate to allow plants to be observed individually.
 - (c) Where appropriate, the cultivation of the seed potatoes shall take place separately from the cultivation of seed potatoes not intended for PRM production.
 - (d) Where applicable, plants derived from *in vitro* propagation may be used for the production of seed potatoes or other material of potatoes.**
 - B. Field cultivation:
 - (aa) The field crop shall have sufficient varietal identity and varietal purity.**
 - (a) During all stages of cultivation, PRM shall be kept separate from each other.
 - (b) PRM satisfying the requirements for a given category shall not be mixed with material of other categories.

PART Ba

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF STANDARD SEED POTATOES OF CONSERVATION VARIETIES AND OTHER MATERIAL OF POTATOES

The following provisions shall apply to seed potatoes produced and marketed pursuant to the derogation referred to in Article 26 concerning conservation varieties.

1. **Requirements for the production of standard seed potatoes of conservation varieties and other material of potatoes**
 - A. Sowing or planting:
 - (a) The identity of the material, including, where applicable, mother tubers or seed sown, shall be determined through an official label or a label issued by the professional operator, and recorded by the professional operator to ensure its traceability. The label of the material after the marketing of that material, or the records on the mother plant, shall be kept by the professional operator.
 - (b) The material shall be planted in a way that planting densities are adequate to allow plants to be observed individually.
 - (i) [...]
 - ensures freedom from infection from any possible source throughout the production process.**
 - (ii) [...]
 - (iii) [...]
 - (c) Where appropriate, the cultivation of the seed potatoes shall take place separately from the cultivation of seed potatoes not intended for PRM production.
 - (d) Where applicable, plants derived from *in vitro* propagation may be used for the production of seed potatoes or other material of potatoes.**
 - B. Field cultivation:
 - (aa) The field crop shall have sufficient varietal identity and varietal purity.**
 - (a) During all stages of cultivation, propagating and planting material shall be kept separate from each other.
 - (b) Seed potatoes satisfying the requirements for a given category shall not be mixed with material of other categories.

- (c) Off-types and deformed or damaged plants or tubers shall be disposed of at all stages of cultivation.
- ~~(d) Mother plants shall be treated or excluded as a source of PRM in case of positive test results or visual symptoms of pests or significant defects likely to impair the quality of the material.~~
- (e) Mother plants shall be cultivated, in all stages of development, in such a way to enable the production of PRM, and to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. ~~Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used. In the case of mother plants not belonging to a variety, that verification of compliance with the official description or the officially recognised description shall concern the species to which those mother plants belong.~~
- (f) ~~Mother p~~Plants shall be inspected **officially or under official supervision** at their relevant growth stage(s), at the relevant frequency and with the relevant methods, including biomolecular techniques.
- ~~(g) The sample to be drawn from a lot shall have the appropriate minimum size for determining the fulfilment of the quality requirements. The intensity, equipment and method of sampling shall be appropriate and in accordance with the applicable international standards.~~
- ~~(h) Testing shall be carried out in accordance with the methods, equipment and growing media appropriate for potato, and in accordance with the applicable international standards, to ensure that the quality requirements have been fulfilled.~~

C. Harvesting and post-harvesting:

- (a) The seed potatoes shall be harvested in bulk, to **in a way that ensures its their identity, health and traceability.**
- (b) A sample of tubers shall be taken from each sealed lot. The sample size and the sampling intensity, equipment and method shall be **appropriate for the determining the fulfilment of the quality requirements** in accordance with the applicable international standards. **The sample may be also taken from the field.**

- (c) Off-types and deformed or damaged plants or tubers shall be disposed of at all stages of cultivation.
- ~~(d) Mother tubers shall be treated or excluded as a source of PRM in case of positive test results or visual symptoms of pests or significant defects likely to impair its quality.~~
- (e) Mother plants shall be cultivated, in all stages of development to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. ~~Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used.~~
- (f) ~~Mother p~~Plants shall be inspected **checked** at their relevant growth stage(s), at the relevant frequency.
- ~~(g) The sample to be drawn from a lot shall have the appropriate minimum size for determining the fulfilment of the quality requirements. The intensity, equipment and method of sampling shall be appropriate and in accordance with the applicable international standards.~~
- ~~(h) Testing shall be carried out in accordance with the methods, equipment and growing media appropriate, and in accordance with the applicable international standards, to ensure that the quality requirements have been fulfilled.~~

C. Harvesting and post-harvesting:

- (a) The seed potatoes shall be harvested in bulk to **a way that ensures its their identity, health and traceability.**
- (b) A sample of tubers shall be taken from each sealed lot. The sample size and the sampling intensity, equipment and method shall be appropriate and in accordance with the applicable international standards. **The sample may be also taken from the field.**

(c) All ~~T~~ tubers samples shall be subjected to official laboratory testing or laboratory testing under official supervision and visual inspection, to ensure the fulfilment of the quality and phytosanitary requirements. Laboratory testing shall be carried out in accordance with methods, equipment and growing media appropriate for potato, and in accordance with the applicable international standards.

(d) ~~The lots belonging to the pre-basic, basic or certified category, shall be subject to risk-based pre and post control plot testing by the competent authority, to verify the compliance with:~~
(i) ~~their varietal identity; and~~
(ii) ~~the standards of the minimum varietal purity.~~
(iii) [...]
(iv) [...]

2. Requirements for the marketing of pre-basic, basic and certified seed potatoes and other material of potatoes

The material seed potatoes shall fulfil all of the following requirements, depending on the category concerned:

- (a) have minimum ~~germination rate,~~ **sufficient vigour**, defined dimension, and specific grading, ~~to ensure the appropriateness of the tubers and sufficient homogeneity of the lot for planting; and~~
- (b) be practically free from significant defects **and damages** likely to impair the quality of the material.

(c) All ~~T~~ tubers samples shall be subjected to laboratory testing **and visual inspection**, to ensure the fulfilment of the quality and phytosanitary requirements. Laboratory testing shall be carried out in accordance with methods, equipment and growing media appropriate for potato, and in accordance with the applicable international standards.

(d) ~~The lots belonging to the standard category shall be subject to risk-based official postcontrol plot testing by the competent authority, to verify the compliance with:~~
(i) ~~their varietal identity; and~~
(ii) ~~the standards of the minimum varietal purity.~~

2. Requirements for the marketing of standard seed potatoes of ~~conservation varieties and other material of potatoes~~

The material seed potatoes shall fulfil all of the following requirements:

- (a) have minimum **sufficient** vigour, defined dimension ~~for the specific variety, and specific grading, to ensure the appropriateness of the tubers and sufficient homogeneity of the lot for planting;~~
- (b) be practically free from significant defects **and damages** likely to impair the quality of the seed potatoes.

SECTION 2
SPECIFIC REQUIREMENTS

PART C

**REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF SELECTED
CLONES AND POLYCLONAL SELECTION**

- 1. Requirements for the production of pre-basic, basic and certified selected clones and polyclonal selections**
- A. Planting:
- (a) The identity of the selected clone or polyclonal selection shall be determined through an official label or a label issued by the professional operator and recorded by the professional operator to ensure its traceability. The label of the material or the records, on the respective mother plants for the production of each selected clone and the respective genotypes for the production of the polyclonal selection, shall be kept by the professional operator after the marketing of that PRM for at least five years.
 - (b) The material shall be grafted or planted in a way that planting densities are adequate to allow each plant to be observed individually.
 - (i) [...]
 - (ii) [...]
 - (c) Where appropriate, the cultivation of material shall take place separately from the cultivation of material belonging to the same genera or species not intended for PRM production.
- B. Field cultivation:
- (a) During all stages of cultivation, PRM shall be kept separate from each other.
 - (b) PRM satisfying the requirements of a given category shall not be mixed with material of other categories.
 - (c) Off-types and deformed or damaged plants shall be disposed of at all stages of cultivation in order to ensure varietal identity and purity, or, in the case of rootstocks not belonging to a variety, trueness to the identity of the species, and efficient production.
 - (d) The respective mother plants and the respective genotypes shall be excluded as a source of PRM in case of specific defects likely to impair the quality of the material.

SECTION 2
SPECIFIC REQUIREMENTS

PART C

**REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF SELECTED
CLONES AND POLYCLONAL SELECTIONS**

- 1. Requirements for the production of standard PRM of selected clones and polyclonal selections**
- A. Planting:
- (a) The identity of the selected clone or polyclonal selections shall be determined through an official label or a label issued by the professional operator and recorded by the professional operator to ensure its traceability. The label of the material or the records, on the respective mother plants for the production of each selected clone and the respective genotypes for the production of the polyclonal PRM, shall be kept by the professional operator after the marketing of that PRM for at least five years.
 - (b) The material shall be grafted or planted in a way that:
 - (i) there is sufficient distance from other plants of the same genera or species, determined on the basis of botanical characteristics for each species and as appropriate for the category of the material, to ensure protection from any undesirable foreign pollination and to avoid cross pollination with other crops;
 - (ii) planting densities are adequate to allow each plant to be observed individually.
 - (c) Where appropriate, the cultivation of material shall take place separately from the cultivation of material belonging to the same genera or species not intended for PRM production.
- B. Field cultivation:
- (a) During all stages of cultivation, propagating and planting material shall be kept separate from each other.
 - (b) Reproductive material satisfying the requirements of a given category shall not be mixed with material of other categories.
 - (c) Off-types and deformed or damaged plants shall be disposed of at all stages of cultivation in order to ensure varietal identity and purity, or, in the case of rootstocks not belonging to a

- (e) The respective mother plants and the respective genotypes shall be cultivated, in all stages of development, in such a way to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. Where the official description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used. In the case of mother plants not belonging to a variety, that verification of compliance with the official description or the officially recognised description shall concern the species to which those mother plants belong.
- (f) Mother plants shall be inspected at their relevant growth stage(s), at the relevant frequency and with the relevant methods as appropriate for the genera or species concerned.
- (g) The sample to be drawn from a lot shall have the appropriate minimum size for determining the fulfilment of the quality requirements for the respective genera or species. The intensity, equipment and method of sampling shall be appropriate for the genera or species concerned and in accordance with the applicable international standards.
- (h) Testing shall be carried out in accordance with the methods, equipment and growing media appropriate for the genera or species concerned, and in accordance with the applicable international standards, to ensure that the quality requirements have been fulfilled.
- (i) [...]
- (j) In the case of polyclonal selections, the mixture of genotypes constituting the polyclonal selections shall be made before the final packaging of that PRM and shall include identical proportions of all genotypes that constitute the polyclonal selections.

2. [...]

PART D

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF PRE-BASIC, BASIC AND CERTIFIED SEED OF FRUIT PLANTS, VINE AND SEED POTATOES

[...]

variety, trueness to the identity of the species, and efficient production.

- (d) The respective mother plants and the respective genotypes shall be excluded as a source of PRM in case of significant defects.
- (e) The respective mother plants and the respective genotypes shall be cultivated, in all stages of development, in such a way to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. Where the official description or officially recognised description cannot be used because of the particular growing stage of the plant, biomolecular techniques may be used. In the case of mother plants not belonging to a variety, that verification of compliance with the official description or the officially recognised description shall concern the species to which those mother plants belong.
- (ea) All crops in the field shall be inspected at their relevant growth stage(s), at the relevant frequency and with the relevant methods, as appropriate, for the species concerned to verify the respective requirements. The methods for inspections shall be such to ensure the reliability of the observations.
- (f) [...]
- (g) [...]
- (h) [...]
- (i) [...]
- (j) In the case of polyclonal selections, the mixture of genotypes constituting the polyclonal PRM shall be made before the final packaging of that PRM and shall include identical proportions of all genotypes that constitute the polyclonal selection.

2. [...]

PART D

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF STANDARD SEED OF FRUIT PLANTS, VINE AND SEED POTATOES

[...]

PART E

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF PRE-BASIC, BASIC AND CERTIFIED MATERIAL PRODUCED BY *IN VITRO* PROPAGATION

1. Requirements for the production of pre-basic, basic and certified material produced by *in vitro* propagation
 - A. *In vitro* culture
 - (a) The identity of the *in vitro* or *in vivo* material, as applicable, shall be determined **by the competent authority or by the professional operator** through a label or records and **shall be recorded** to ensure its traceability. ~~The label or records of the material shall be kept for at least five years by the professional operator.~~
 - (b) [...]
 - [(c) Material that has been taken from *in vivo* material shall be sterilised.]**
 - B. *In vitro* production
 - (a) The clone(s) that originate from the material referred to under point A.(a) shall be produced by *in vitro* propagation.
 - ~~(b) During all stages of cultivation, PRM shall be kept separate from each other.~~
 - ~~(c) Clone(s) satisfying the requirements of a given PRM category shall not be mixed with clone(s) of other categories.~~
 - (d) The number of successive propagation cycles by *in vitro* propagation shall be restricted, as appropriate, for the genera or species concerned.
 - (e) Clone(s) shall be cultivated, in all stages of development, in such a way to permit their identification and verification of compliance with the official description or the officially recognised description of their variety. Where the official description **or officially recognised description** cannot be used because of the particular growing stage of the plant, biomolecular techniques **or a number of clones planted *in vivo***, may be used. In the case of clone(s) not belonging to a variety, ~~that~~ **the** verification of compliance with the official description or the officially recognised description shall concern the species to which those clone(s) belong.
 - (f) Clone(s) shall be inspected ~~at their relevant growth stage(s), at the relevant frequency and with the relevant methods,~~ as

PART E

REQUIREMENTS FOR THE PRODUCTION AND MARKETING OF STANDARD MATERIAL PRODUCED BY *IN VITRO* PROPAGATION

1. Requirements for the production of standard material produced by *in vitro* propagation
 - A. *In vitro* culture
 - (a) The identity of the *in vitro* or *in vivo* material, as applicable, shall be determined ~~through a label~~ and **shall be recorded** to ensure its traceability. ~~The label of the material shall be kept.~~
 - [(b) Material that has been sampled taken from *in vivo* material shall be sanitised sterilised.]**
 - B. *In vitro* production
 - (a) The clone(s) that originate from the material referred to under point A.(a) shall be produced by *in vitro* propagation.
 - ~~(b) During all stages of cultivation, propagating and planting material shall be kept separate from each other.~~
 - ~~(c) Clone(s) satisfying the requirements of a given PRM category shall not be mixed with clone(s) of other categories.~~
 - (d) The number of successive propagation cycles by *in vitro* propagation shall be restricted, as appropriate, for the genera or species concerned.
 - (e) Clone(s) shall be cultivated, in all stages of development, in such a way ~~to enable the production of PRM, and permitting~~ their identification and verification of compliance with the official description or the officially recognised description of their variety. Where the official description or officially recognised description cannot be used because of the particular growing stage of the plant, biomolecular techniques **or a number of clones planted *in vivo*** may be used. In the case of clone(s) not belonging to a variety, ~~that~~ **the** verification of compliance with the official description or the officially recognised description shall concern the species to which those clone(s) belong.

appropriate, for the genera or species concerned **to verify the respective requirements.**

- (g) The sample to be drawn from a lot shall have the appropriate minimum size for determining the fulfilment of the quality requirements for the respective genera or species. The intensity, equipment and method of sampling shall be appropriate for the genera or species concerned and in accordance with the applicable international standards.
- (h) Testing shall be carried out in accordance with the methods, equipment and growing media appropriate for the genera or species concerned, and in accordance with the applicable international standards, to ensure that the quality requirements have been fulfilled.

2. Requirements for the marketing of pre-basic, basic and certified material produced by *in vitro* propagation

The *in vitro* or *in vivo* material derived from *in vitro* shall fulfil all of the following requirements, depending on the characteristics of each genus or species and the category concerned:

- (a) belong to the variety and, in the case of material not belonging to a variety, belong to the species indicated on the label by:
 - (i) observing the phenotypic characteristics of the *in vivo* material referred to under point A.(a);
 - (ii) producing *in vivo* plants or minitubers from the *in vitro* material referred to under point A.(a) and observing the phenotypic characteristics of those plants;
 - (iii) producing *in vivo* plants from the clone(s) referred to under point B.(a) and observing the phenotypic characteristics of those plants; and
 - (iv) where appropriate, molecular analysis of the *in vitro* material referred to under point A.(a) and/or the clone(s) referred to under point B.(a);
- (b) have minimum **sufficient** vigour, and, **defined dimension, and**, where applicable, specific grading, to ensure the appropriateness of the material and sufficient homogeneity of the lot for planting;
- (c) be practically free from significant defects **and damages** likely to impair the quality of the material.

- (ea) All clones in the field shall be inspected **checked** at their relevant growth stage(s), at the relevant frequency and with the relevant methods, as appropriate, for the **genera or** species concerned to verify the respective requirements. The methods for inspections shall be such to ensure the reliability of the observations.

- (f) [...]
- (g) [...]
- (h) [...]

2. Requirements for the marketing of standard material produced by *in vitro* propagation

The *in vitro* or *in vivo* material shall fulfil all of the following requirements, depending on the characteristics of each genus or species and the category concerned:

- (a) belong to the variety and, in the case of material not belonging to a variety, belong to the species indicated on the label by:
 - (i) observing the phenotypic characteristics of the *in vivo* material referred to under point A.(a);
 - (ii) producing *in vivo* plants or minitubers from the *in vitro* material referred to under point A.(a) and observing the phenotypic characteristics of those plants;
 - (iii) producing *in vivo* plants from the clone(s) referred to under point B.(a) and observing the phenotypic characteristics of those plants; and
 - (iv) where appropriate, molecular analysis of the *in vitro* material referred to under point A.(a) and/or the clone(s) referred to under point B.(a);
- (b) have minimum **sufficient** vigour, defined dimension, and, where applicable, specific grading, to ensure the appropriateness of the material and sufficient homogeneity of the lot for planting;
- (c) be practically free from specific **significant** defects and damages.