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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Guidelines for the conduct of tests for distinctness, uniformity
and stability(DUS) - Almond [Prunus dulcis (Mill.) D. A. Webb]**

植物新品种特异性、一致性、稳定性测试指南 扁桃

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that certain contents of this standard may involve patents, and the issuing organization of this standard does not bear the responsibility for identifying these patents.

This standard was proposed and managed by the State Forestry and Grassland Administration.

Drafting organizations of this standard. Paulownia Research and Development Center of State Forestry and Grassland Administration, Forest Management Station of Xinjiang Kashgar Prefecture, Economic Forest of Xinjiang Academy of Forestry graduate School.

1 Scope

This standard specifies *Prunus dulcis* (Mill.) DAWebb; *Amygdalus communis* L.; *Prunus amygdalus* L.) New breed specificity, consistency and stability test technical requirements.

This standard applies to the testing of new varieties of almonds.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 19557.1 General Principles for Testing the Specificity, Consistency and Stability of New Plant Varieties

3 Terms and definitions

The terms and definitions defined in GB/T 19557.1 apply to this standard.

4.1 Test materials

4.1.1

The applicant for variety rights shall submit test materials that meet the specified quantity and quality requirements at the specified time and place. From a non-testing country or for materials submitted by the region, the applicant shall provide relevant documents such as customs and plant quarantine in accordance with relevant regulations on entry, exit and transportation.

4.1.2

The test materials submitted should be scions or vegetatively propagated plants that have grown for at least 1 year.

4.1.3

The number of submitted test materials shall not be less than 8 or at least shall meet the expansion of 8 seedlings.

4.1.4

The test materials submitted should be plants or scions that are free of pests and diseases and grow normally.

4.1.5

Except for the processing of materials permitted or required by the examination and approval agency, the submitted test materials shall not be subjected to any additional tests that affect the expression of traits.

deal with. If it has been processed, the variety right applicant should provide detailed information on the processing.

4.2.1 Test cycle and time

In the case of meeting the test conditions, at least two independent growth cycles are tested.

4.2.2 Test location

The testing of the varieties to be tested shall be carried out in the testing bases and laboratories designated by the approval agency.

4.2.3 Test conditions

The test should be carried out under the condition that the relevant characteristics of the test material can be fully expressed, and the selected test material should at least be planted in the test site or grafting for 2 years.

4.2.4 Test design

4.2.4.1

The variety to be tested should be planted in the same location and environmental conditions as the standard variety and similar varieties. Each variety should be tested with 5 individual plants.

As the basis.

4.2.4.2

If certain parts of the plant need to be extracted as samples for the test, the sample collection shall not affect the observation of the entire growth cycle of the tested plant.

Measurement.

4.2.4.3

Unless otherwise stated, all observations should be made on 5 plants or materials taken from the same part of 5 plants.

4.2.5.1 Plants (Character No. 2~3 in Table A.1 of Appendix A)

Observe the traits of the plants before leaf development or after dormancy in autumn.

4.2.5.2 Annual branches (character numbers 4~5 in Appendix A Table A.1)

After the branches are lignified in summer to before deciduous, select the current-year branches (two branches per plant) on the sun-facing side of the middle and upper crown of the test plants.

It is a test material for 1-year-old branch characteristics.

4.2.5.3 Leaves (character numbers 6 to 11 in Table A.1 in Appendix A)

After the leaves have matured in summer, select the mid-section leaves of the current-year-old branches in the middle and upper part of the crown of the test plant (choose two branches for each plant, Choose 2-3 leaves for each branch) as the test material for leaf characteristics.

4.2.5.4 Flower buds (character number 12~15 in Table A.1 of Appendix A)

When the flowers are about to bloom, select the flower buds (choose 2 flower buds for each plant) of the branches on the sun-facing side of the crown of the test plant as the flower characteristics Levy test materials.

4.2.5.5 Flowers (Character numbers 16-21 in Table A.1 of Appendix A)

In the blooming period, select the flowers of the branches on the sun-facing side of the top of the crown of the test plant (choose 2 flowers for each plant) as the test of flower characteristics material.

4.2.5.6 Fruit (Character No. 22~27 in Table A.1 of Appendix A)

Before the fruit stops expanding and matures and cracks, select the test plant to produce branches in the upper part of the canopy on the sun side (choose 2 fruits for each plant) as a test material for fruit characteristics.

4.2.5.7 Endocarp (Character No. 28~40 in Table A.1 of Appendix A)

After the fruits are naturally cracked, select the middle and upper fruiting branches of the test plants on the sunny side of the canopy (choose 2 fruits for each plant) as the endocarp special Levy test materials.