



**TG/60/7**  
**ORIGINAL:** English  
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**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**BEETROOT**  
UPOV Code: BETAA\_VUL\_GVC  
*Beta vulgaris* L. ssp. *vulgaris* var. *conditiva* Alef. \*

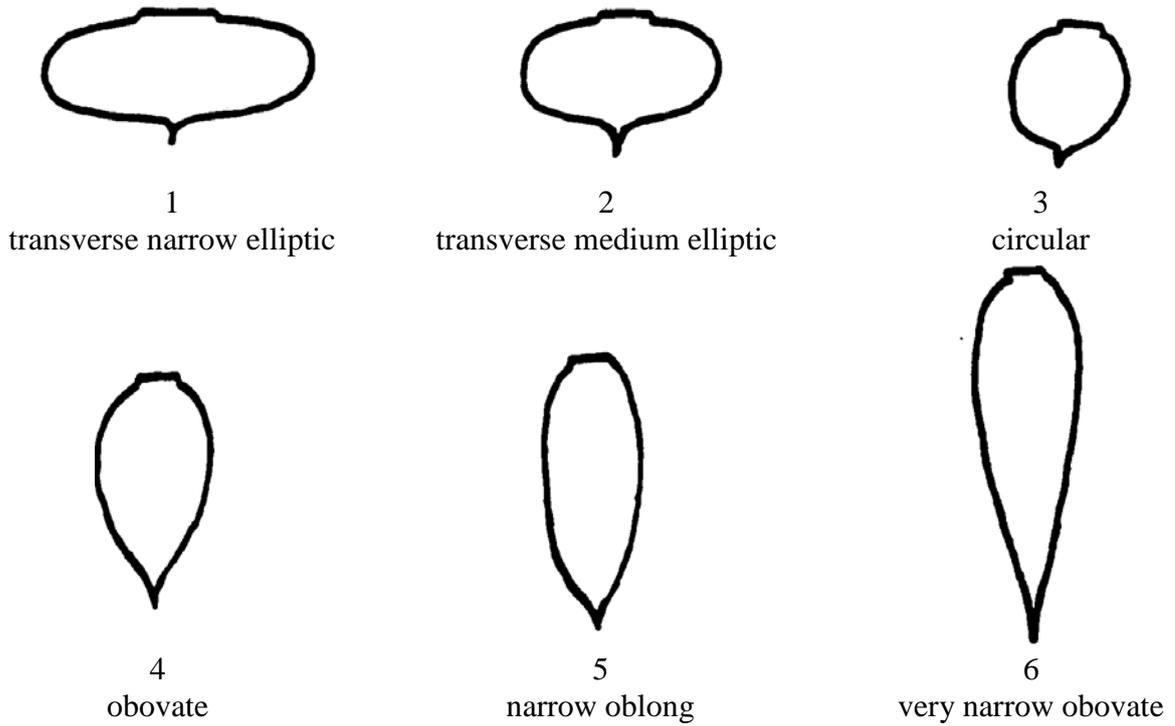
**GUIDELINES**  
**FOR THE CONDUCT OF TESTS**  
**FOR DISTINCTNESS, UNIFORMITY AND STABILITY**

Ad. 1: Germity

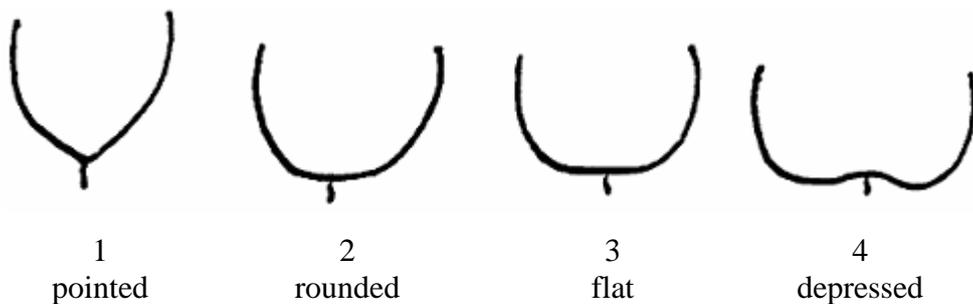
Germity should be observed on 200 seed clusters. Monogerm varieties are genetically monogerm and at least 90% of seed clusters should lead to single plants. Seed clusters of multigerm varieties lead to less than 90% single plants.

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Ad. 17: Root: shape in longitudinal section



Ad. 21: Root: shape of tip



Ad. 27: Bolting tendency (from an early sowing)

Method of cold treatment

Seed is laid out on a filter paper, which should be kept moist for germination. The minimum germination temperature is 18°C. With emergence of the root the seedlings should be transplanted into modules and subjected to cold treatment in cold storage for four weeks at 3°C without artificial lighting.

After the cold treatment the seedlings should be cultivated under normal conditions, preferably in the greenhouse (2°C minimum temperature, ventilation at 7°C and above). Multigerm varieties with several seedlings emerging from one cluster should not usually be singled. After the development of two true leaves, the young plants should be transplanted into the open field.

The number of bolted plants (with shoot axis elongated by more than 5 cm) should be counted at least once a week.

It is recommended to conduct this test as early as possible in the growing season, because bolting is very strongly influenced by the climatic conditions after cold treatment. Beetroot is very sensitive to devernialization at temperatures above 18°C.