



## MORPHOLOGICAL DESCRIPTOR

### CUCUMBER (*Cucumis sativus* L.)



Federal Seed Certification & Registration Department  
Ministry of Food, Agriculture & Livestock  
Government of Pakistan, Islamabad

*Testing Genetic Suitability and Adaptability: and  
Registration of Crop Varieties is Legal Obligation  
under Section 8 of Seed Act, 1976.*

Dr. M. Ashraf Tajammal  
Ms. Naheed Naz

**GENERAL**

Variety name .....

Parentage .....

Pedigree .....

Breeder (s) .....

Breeding center/institute .....

Comparable variety (s) .....

Variety maintainer .....

Origin  Local  Exotic

Breeding method  Selection  Hybridization  Introduction  Any other

Areas of adaptation .....

Planting time .....

Maturity duration  Short  Medium  Long

**PLANT CHARACTERISTICS**

Plant vigour  Weak  Medium  Strong

Total length of first 15 internodes (cm) .....

Foliage density  Weak  Medium  Strong

**STEM CHARACTERISTICS**

Stem thickness (mm) .....

Stem hairiness  Sparse  Medium  Profuse

**LEAF CHARACTERISTICS**

Leaf color  L. green  Green  Dark green

Leaf length (cm) .....

Leaf width (cm) .....

Length of terminal lobe (cm) .....

Width of terminal lobe (cm) .....

Leaf pubescence  Sparse  Medium  Profuse

**FLOWER CHARACTERISTICS**

Flower color  Whitish  L. yellow  Yellow  Orange

Petal length (cm) .....

Bisexual flowers  Absent  Present

Sex expression of flowers  Male/female equal  Mainly female  Only male

No. of female flowers/node  1-3  More than three

Parthenocarpy  Absent  Present

**FRUIT CHARACTERISTICS**

Fruit color  L. green  Green  Dark green  Any other

Fruit length (cm) .....

Fruit diameter (cm) .....

Shape of cross section  Round  Triangular

Predominant shape of stem  Necked  Acute  Obtuse

Fruit ribs  Low  Medium  High

Fruit surface  Smooth  Rough  Wrinkled

Fruit streaks  Low  Medium  High

Fruit mottling  Absent  Present

Fruit bitterness  Absent  Present

Cotyledon bitterness  Absent  Present

**SEED CHARACTERISTICS**

- Seed color  White  Yellow  Yellowish white
- Seed shape  Narrow elliptic  Elliptic  Broad elliptic
- Seed size  Small  Medium  Bold
- Seed length (mm) .....
- Seed width (mm) .....
- 1000, seed weight (g) .....

**ENVIRONMENTAL ADAPTABILITY** (Evaluation done under define conditions)

**Flowering Response to seasons**  Stable  Variable  Highly variable

**Drought tolerance**  Least tolerant  Medium  Most tolerant  
(Measured as reduction in yield).

**Tolerance to salinity**  Least tolerant  Medium  Most tolerant  
(Measured by reduction in plant height 30 days after sowing).

**Tolerance to acid soils**  Least tolerant  Medium  Most tolerant  
(Measured as reduction in plant height 30 days after sowing).

**Cold tolerance**  Least tolerant  Medium  Most tolerant  
(Measured as reduction in general vigour and productivity after being continuously exposed to an average temperature of 15 °C for at least 15 days).

**Heat tolerance**  Least tolerant  Medium  Most tolerant  
(Measured as yield reduction when continuously exposed to average of 40 °C during the flowering period).

**RESISTANCE TO INSECTS/PESTS**

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**RESISTANCE TO DISEASES**

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**DISTINGUISHING CHARACTERISTICS**

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**RECOMMENDED/APPROVED BY**

Variety Evaluation Committee (VEC)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Experts Sub Committee	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Provincial Seed Council	<input type="checkbox"/> Yes	<input type="checkbox"/> No

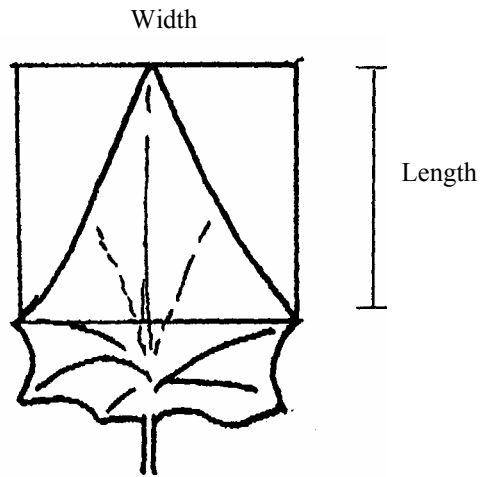
**COMMENTS OF SPOT EXAMINATION**

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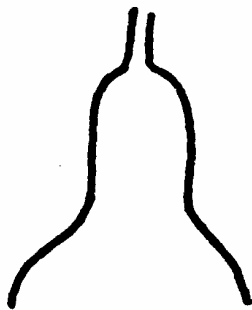
**ADDITIONAL INFORMATION**

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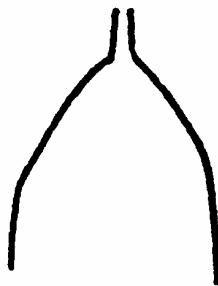
**LEAF RATIO LENGTH/WIDTH OF TERMINAL LOBE**



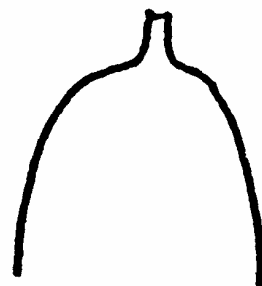
**PREDOMINANT SHAPE OF STEM**



Necked



Acute



Obtuse