



**MORPHOLOGICAL DESCRIPTOR**  
**EGG PLANT (*Solanum melongena* 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) .....

Variety maintainer (s) .....

Comparable variety (s) .....

Breeding center/institute .....

Origin  Local  Exotic

Breeding method  Selection  Hybridization  Introduction  Any other

Areas of adaptation .....

Sowing time .....

Maturity duration  Short  Medium  Long

**SEEDLING CHARACTERISTICS**

Seedling height (cm) ..... (after two weeks)

Seedling color .....

Seedling anthocyanin  Absent  Weak  Medium  Strong

**PLANT CHARACTERISTICS**

Growth habit  Erect  Semi erect  Spreading

Plant height (cm) .....

**STEM CHARACTERISTICS**

Stem anthocyanin  Absent  Weak  Medium  Strong

Stem hairiness  Absent  Sparse  Medium  Profuse

Middle internode length (cm) .....

**LEAF CHARACTERISTICS**

Leaf color  Green  Dark green  Violet green

Leaf margins  Entire  Dentate  Sinuate

Leaf blade lobing  V. weak  Weak  Intermediate  Strong  V. strong

Leaf blade tip angle  V. acute  Acute  Intermediate  Obtuse  V. obtuse

Leaf spines  Absent  Weak  Medium  Strong

Leaf hairiness  Absent  Weak  Medium  Strong

Leaf length/width (cm) ...../.....

Leaf size  Small  Medium  Large

**FLOWER AND FRUIT CHARACTERISTICS**

Flowering duration  Early  Medium  Late

Flower size  Small  Medium  Large

Flower color  Greenish white  White  Pale violet  L. violet  Bluish violet

**FRUIT CHARACTERISTICS**

Fruit ripening  Early  Medium  Late

Fruit length (cm) .....

(From base of calyx to tip of fruit)

Fruit width (cm) .....

Fruit length/breadth ratio  Broader than long  As long as broad  Slightly longer than broad  
 Twice as long as broad  Three times as long as broad  Several times as long as broad

Fruit size  Small  Medium  Large  Extra large

Fruit color  Purple  Mauve  White

Intensity of color  Light  Medium  Dark

Fruit shape  Globular  Ovoid  Cylindrical  Pear shaped

**Morphological Descriptor**

**Egg Plant**

- Fruit apex  Indented  Rounded  Pointed
- Fruit curvature  Absent  Slightly curved  Curved  Snake shape  Sickle shape  U shaped
- Fruit glossiness  Weak  Medium  Strong
- Fruit anthocyanin of calyx  Absent  Weak  Medium  Strong
- Calyx spines  Absent  Short  Medium  Long
- Fruit flesh density  Spongy  Crumbly  Average density  Dense  V. dense
- Color of flesh  White  Yellowish white

**SEED CHARACTERISTICS**

- Seed size  Small  Medium  Bold
- Seed color  White  Off white  L. brown  Dark brown  Any other
- Seed shape  Compressed round  Semi compressed round  Any other
- 000, seed weight (g) .....
- Yield (kg/acre) .....

**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

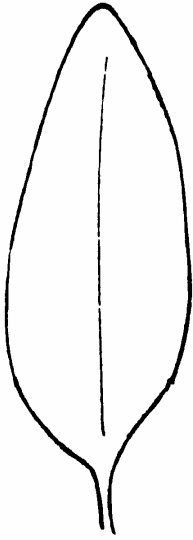
**COMMENTS OF SPOT EXAMINATION**

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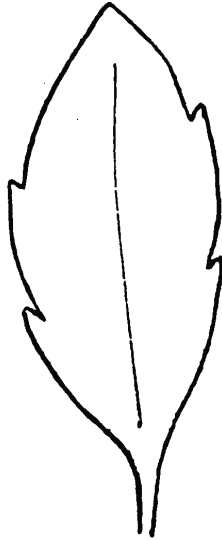
**ADDITIONAL INFORMATION**

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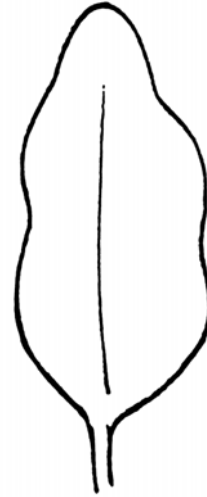
**LEAF MARGIN**



Entire



Dentate



Sinuate

**LEAF BLADE LOBING**



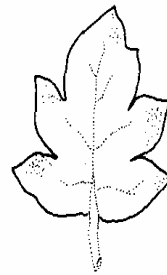
V. weak



Weak



Intermediate



Strong

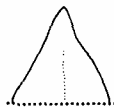


V. strong

**LEAF BLADE TIP ANGLE**



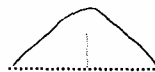
V. acute



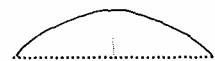
Acute



Intermediate



Obtuse



V. obtuse

**FRUIT SHAPES**



Pear shaped



Ovoid

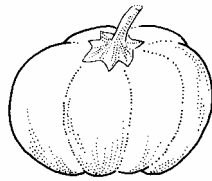


Globular

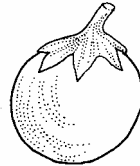


Cylindrical

**FRUIT LENGTH/BREADTH RATIO**



Broader than long



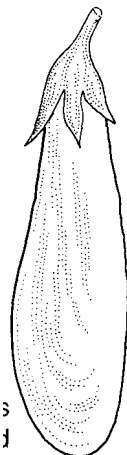
As long as broad



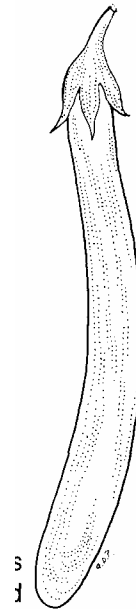
Slightly longer than broad



Twice as long as broad



Three times as long as broad



Several times as long as broad

**FRUIT CURVATURE**

