

## MUNG BEAN RULES Ref SR 007

20 November 2004

The following Rules are to be applied in conjunction with the "General Rules" for the certification of seed for sowing which contain the general procedures.

### OBJECTIVES

To provide commercial true to type mung bean (*Vigna radiata* and *V. mungo*) seed with minimal levels of the proscribed seed borne diseases.

### ELIGIBILITY OF AREA

An area will not be eligible for registration for the production of disease free mung bean seed if

- any plants infected with the proscribed diseases are found to be present in the area or isolation area; or
- any registered mung bean seed crops have been grown thereon at any time during the preceding six (6) months; or
- any *Macroptilium lathyroides* (phasey bean) plants present are not eradicated prior to sowing; or
- any *Ipomoea* spp (bell vine, cow vine) plants are not eradicated prior to sowing; or
- any of the following crops other than basic or certified seed crops grown for disease freedom have been grown thereon during the preceding eighteen (18) months:  
*Cajanus cajan* (pigeon pea);  
*Cyamopsis tetragonoloba* (guar);  
*Glycine max* (soybeans);  
*Macroptilium atropurpureum* (siratro);  
*Neonotonia wightii* (glycine);  
*Phaseolus lunatus* (lima beans);  
*Phaseolus vulgaris* (french, culinary or navy bean);  
*Pueraria lobata* (kudzu);

*Pueraria phaseoloides* (puero);  
*Vigna angularis* (adzuki bean);  
*Vigna mungo* (black bean);  
*Vigna radiata* (mung bean);  
*Vigna unguiculata* (cowpea);

The presence of any volunteer plants of the species named above will not disqualify the area, provided such plants are not infected with any of the proscribed diseases and are eradicated from the area as soon as possible after they appear.

### ISOLATION

Any registered area is to be separated from any crop or plants or species listed above by not less than 100 metres. If the adjoining crop is a registered area of mung bean of the same or equivalent status or stage may be separated from each other by one of the following:-

- a bare soil strip not less than 10 metres wide; or
- a strip not less than 2.5 metres wide densely planted to a tall growing crop that is sown before, during or immediately after sowing of a mung bean seed crop.

The presence of any volunteer plants of the species named above will not disqualify the area provided such plants are not infected with any of the proscribed diseases and are eradicated from the area as soon as possible after they appear.

## INSPECTIONS

Crop inspections are to be carried out at the following times to inspect for freedom from proscribed diseases:-

### Basic seed -

Two inspections are necessary. The first shall be carried out by walking between every 2 rows at early pod fill to check primarily for diseases. The second inspection shall be at the early brown pod stage by walking randomly through the crop to check for off-types.

### Certified seed -

One inspection at the early brown pod stage is to be carried out by walking randomly through the crop to check for off-types.

## MACHINERY

Immediately prior to the use of any machinery, the machinery must be free from all seed and crop residues and is to be treated as follows:

Thoroughly sprayed with disinfectant containing CETRIMIDE (15 % w/v) and CHLORHEXIDINE GLUCONATE (1.5 % w/v), such as SAVLON HOSPITAL CONCENTRATE, at the dilution recommended on the label; to which is added SODIUM NITRITE at the rate of 1 gram per litre of diluted solution to inhibit rusting of metal surfaces; or

treated with any other material that will effectively control the proscribed diseases.

The treatments specified above need not be applied if the machinery has not been used for crop or seed other than disease free seed in the previous 12 months.

## CROP REJECTION

Seed shall be rejected for the purposes of certification if it fails to comply with the following requirements:-

### Basic Seed

- off-types - nil.
- proscribed diseases - nil

### Certified seed

- Off types maximum - 0.5 %.
- Proscribed diseases
  - Halo blight - nil
  - Common bacterial blight - nil
  - Tan spot - minimal levels
  - Bean common mosaic virus –max 1 %
  - Alfalfa mosaic virus - max 1 %

## SEED QUALITY STANDARDS

Seed must meet the minimum standards as listed hereunder to be eligible for labelling as certified seed.

### Basic seed -

Nil applicable if used by applicant other wise certified seed standards apply.

### Certified Seed -

- Minimum germination 70 %
- Minimum Purity 98.6 %
- Maximum Other Seed 0.4 %
- Nil if used to plant further certified seed areas.

## PROSCRIBED DISEASES

**Halo blight** (*Pseudomonas syringae* pv. *phaseolicola*),

**Common bacterial blight** (*Xanthomonas campestris* pv. *phaseoli*),

**Tan spot** (*Curto-bacterium flaccumfaciens* sub sp. *flaccumfaciens*)

**Bean common mosaic virus (BCMV) and Alfalfa mosaic virus.**