

## Mustard – Foundation Production of Parent Seed of Composite & Synthetic *S. alba*

The requirements shown here are specifically for Foundation plot production of the parent seed for Composite and Synthetic *S. alba*. **Open-pollinated and Hybrid *S. alba*, *B. juncea* and *Carinata*** are not included and can be found under separate headings.

### General Requirements for All Pedigreed Seed Crops

The basic standards for all crops are set out in [General Requirements for All Pedigreed Seed Crops](#). The basic standards for all plots are set out in [General Requirements for Plot Production](#). In addition, the following standards apply to Foundation plot production of parent seed of Composite and Synthetic *S. alba*.

### Land Requirements

| Inspected Crop | Must NOT be grown on land which:   |
|----------------|--|
| Foundation     | <p>In any of the preceding 5 years has been planted with or produced a crop of:</p> <ul style="list-style-type: none"><li>• Canola or Rapeseed (<i>B. napus</i>, <i>B. rapa</i>)</li><li>• Carinata (<i>B. carinata</i>)</li><li>• Mustard (<i>B. juncea</i>, <i>S. alba</i>)</li><li>• Radish (<i>R. sativus</i>)</li></ul> |

### Crop Inspection

Foundation plot production of the parent seed for Composite and Synthetic *S. alba* must be inspected when the crop is in the early flowering stage.

### Crop Standards

#### Isolation

The first 50 meters of isolation must be practically free from plants that may cross pollinate (CP in table below) with the inspected seed crop (not more than 1 plant per 100 square meters, on average) and the remaining distance reasonably free from plants that may cross pollinate with the inspected crop (not more than 1 plant per 10 square meters, on average).

The risk to varietal purity posed by plants that may cross pollinate varies depending on area, density, stage of maturity and distance from the inspected crop. These factors will be taken into consideration in determining the pedigreed status of the inspected crop.

#### Minimum Isolation Distances Required from an Inspected Crop to Other Crops:

|  |                        |
|--|------------------------|
| <b>1. Varietal Purity</b>  | <b>Distance</b>        |
| a. Plot of the same pollen parent  | 3 meters (10 feet)     |
| b. Different variety of <i>S. alba</i> or non-pedigreed crop of <i>S. alba</i>                   | 400 meters (1312 feet) |
| <b>2. Mechanical Purity</b>  | <b>Distance</b>        |
| a. <i>B. napus</i> , <i>B. rapa</i> , <i>B. juncea</i> , <i>B. carinata</i> or <i>R. sativus</i> | 3 meters (10 feet)     |

## Weeds

1. The presence of Cleavers (*Galium aparine*) is cause for declining pedigreed status.
2. Wild mustard (*Sinapis arvensis*) must not be present in the area of the crop to be harvested for seed at an average of more than 1 plant/20,000 plants.

## Maximum Impurity Standards

1. **Varietal Purity** (on average in 20,000 plants)
  - a. Off-types/other varieties of the same species – 1
  - b. Plants of species that may cross pollinate (CP in table below) – 1
2. **Mechanical Purity** (on average in 20,000 plants)
  - a. Plants of species with difficult to separate seeds (DTS in table below) – 1

| Species        | Canola<br>( <i>B. napus</i> ) | Canola<br>( <i>B. rapa</i> ) | Mustard<br>Brown/Oriental<br>( <i>B. juncea</i> ) | Mustard<br>White/Yellow<br>( <i>S. alba</i> ) | Carinata<br>( <i>B. carinata</i> ) | Radish<br>( <i>R. sativus</i> ) |
|----------------|-------------------------------|------------------------------|---|---|------------------------------------|---------------------------------|
| <i>S. alba</i> | DTS                           | DTS                          | DTS   | n/a   | DTS                                | DTS                             |