##### PRT-CGN-PG-202 PROTOCOL dry seed cleaning

This protocol applies to all parties involved in the multiplication of CGN material.

### **Introduction**

The cleaning of multiplied material must meet minimum quality requirements in order to maintain the genetic identity and integrity (no unwanted mixing between accessions).

Material that is multiplied outside Plant Sciences Group only needs to be threshed and coarsely cleaned. Fine cleaning takes place at Unifarm.

Material multiplied within Plant Sciences Group must be delivered to CGN threshed, cleaned and fine-cleaned.

*Any deviation from this protocol should be reported to CGN, after which it will be recorded by CGN in the Multiplication logbook (FOR-CGN-PG-002).*

##### Seed cleaning

Maintaining genetic integrity

* Population size
* All harvested material is threshed and cleaned.
* If applicable, all threshed material is fine-cleaned.

Maintaining identity

* Characteristics
* During harvesting, threshing and, if applicable, fine-cleaning, the accessions should be clearly marked by labels with the field number. The field number given before sowing remains the same until cleaning. The seed is transferred to the CGN with the corresponding field list.
* Selection
* No selection is made.
* During threshing, cleaning and, if applicable, fine cleaning, the equipment is cleaned after each sample so that there is no mixing of accessions.

Maintaining seed quality:

* Seed treatment after harvest
* The harvested plant parts are pre-dried for up to 7 days in a drying est between 25 and 28°C and uncontrolled humidity.
* In consultation with the CGN, it will be decided how the seed will be threshed, cleaned and, if applicable, fine-cleaned after harvest.
* Seed treatment when threshing and cleaning
* The equipment should be set so that minimal seed damage can occur.
* The equipment of, if applicable, fine-cleaning should be set and used in such a way that the fraction of rejected seed consists of empty and/or broken seeds.

**Concluding actions**

* All deviations during threshing and, if applicable, fine cleaning, are noted and sent with the seed. These notes are copied into the Multiplication Logbook.
* The cleaned seed is sent to the CGN as soon as possible after harvest, but no later than within 6 months after harvest with the corresponding field list, with the seed bags containing the field number.