

Statement of seed analysis

Overview

Variety	Sicot 746B3F
AUS Lot Number	AUS/N12/22/322
Treatment	V2C
Test Date	27/06/2023

Variety specific information can be found on CSD's website. It is important to be aware of the seed density of the variety you are planting as this can significantly influence field performance at establishment. Normal density seed type varieties are considerably better equipped to withstand less than ideal conditions at sowing. CSD warrants the varietal and trait/s of interest purity within the bag of seed. CSD operates a limited generation seed increase scheme to ensure varietal purity.

For CSD cotton seed an AUSLot represents a batch of treated seed up to 25,000 kg. All seed quality tests are carried out on a representative sample taken from the entire AUSLot.

This date represents the final germination test on the finished bag of seed. Seed is tested post treating with the fungicide and/or insecticides. This is the last stage of CSD's quality assurance process prior to delivery to CSD Agents.

Purity

Pure Seed	99.98%
Other Seed	0.0%
Inert Matter	0.02%
Mechanical Damage	9%

Physical purity represents the percentage of the contents of the bag which are: pure seed (cotton seed), other seeds (non-cotton seeds) and inert matter (plant material, seedcoat fragments and all other non-seed matter).

CSD classifies mechanical damage as any damage to the seed coat that exposes the embryo. This is assessed with a microscope and can include major damage through to very minor damage not visible to the naked eye. Note that the germination tests include all these seeds.

Germination

Warm Germination	91%
Cool Germination	64%
Seeds per kilogram	11,765

Warm germination % represents the total number of seeds which have germinated and produced a seedling 40 mm or longer and is measured at 4 and 7 days after exposing the seed to cyclic 30/20°C. This figure represents the maximum germination percentage or viability of the seed and can be used to adjust planting rates.

The cool germination test is a relative measure of seed vigour. It is the total number of seeds which have germinated and produced a seedling 40 mm or longer measured at 7 days after exposing the seed to constant 18°C temperature. Unlike the warm germination result which represents the percentage of viable seeds, the cool germination figure doesn't represent actual performance of the seedlot in cool conditions, nor does it indicate expected establishment in cool conditions. If planting into less-than-ideal conditions such as those indicated by an amber light on CSD's traffic light system, seedlots with lower cool germination will likely have slower and less consistent development compared to a seedlot with higher cool germination. Seed vigour should be considered in combination with seedling vigour as determined by varietal seed type.

If concerned about early vigour, CSD encourages precaution such as waiting for preferable conditions, avoiding excessive planting depth, or adjusting seeding rates.

The seeds per kilogram is the actual seeds/kilogram for the specific AUSLot. It can be used to fine tune the planting operation and planting rate.

Carryover seed and testing

CSD provides free seed germination testing for both growers and agents. All carryover seed from prior seasons should be tested prior to planting. Samples for testing are required to be submitted via your CSD Agent. May - June is the ideal time for this as the process takes a minimum of 10-12 days.

For more information on the seed sampling process and how to take a sample head here:



Please note: this is only valid for a period of six months from the date of test results.