



Seed Maturity Measurement

Chlorophyll fluorescence (CF) is often present in seeds during their early development. During maturation, the chlorophyll content of seed generally decreases gradually. The chlorophyll contents on seed are thus inversely linked with seed maturity in many species, and thus a good indicator for germination, vigor, longevity and shelf life.

CF sensor can determine the seed chlorophyll content simply, fast and non-destructively. The device can be used in the production field, at the seed processing/warehouse area or in a seed lab.

Giving you the data on seed maturity test and accuracy, so that you can make better decisions in seed harvesting time, quality and warehouse (storage) management.

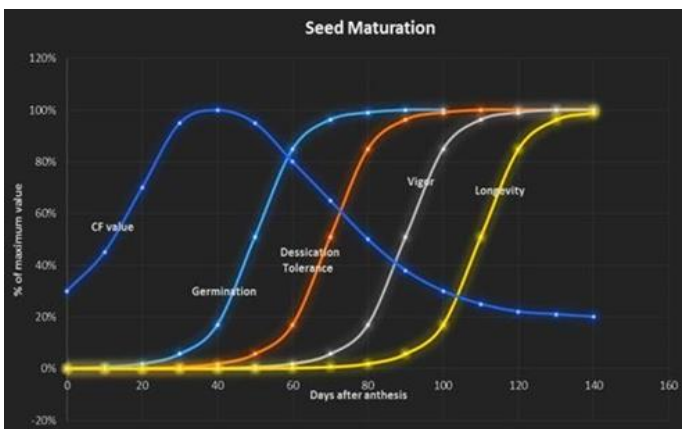


Features

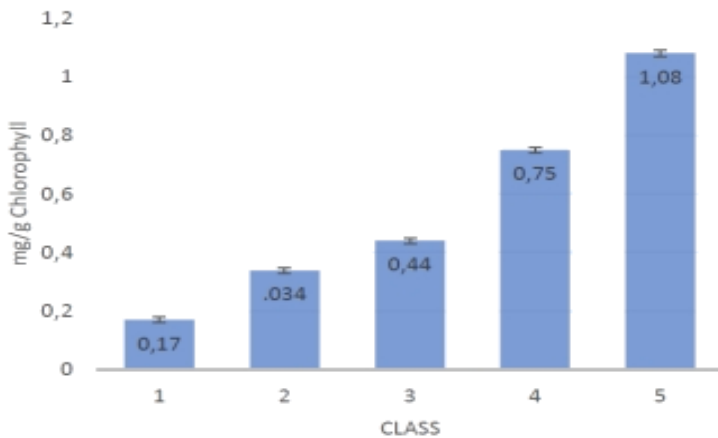
- Measuring the chlorophyll fluorescence distribution of a seed lot sample.
- Rapid assessment (< 2 seconds)
- Manual operation
- Various trays for each crop

Benefits

- To be used in the field: Indication of seed maturity, for harvesting decision
- To be used in seed inventory: Indication for storability, indication for seed inventory
- To be used in the warehouse: By intake of fresh harvested seed lots, for premium calculations, by seed sorting as a quick indicator
- To be used in the seed lab: As a measurement of maturity, as an indicator for storability, as an indicator for seed quality
- Fast and non-destructively method
- Easy for operation
- Cost effective



Chlorophyll Fluorescence Spinach seed



The sensor measures the chlorophyll fluorescence which can be calculated to a rough chlorophyll concentration. The graph shows the chlorophyll fluorescence (CF) of five different spinach batches, analyzed with a CF-Seed sensor. The sensor indicates a variation in the CF per spinach batch. Batch five has the highest CF level, batch one the lowest. This indicates that batch five is less suited for long term storage.

Specifications

Model	Specification
Measurement range	0 – 10 mg/g
Temperature range	+ 5 to + 45°C
Accuracy	<ul style="list-style-type: none"> • Accuracy at 0 – 1 mg/g* = ± 0.1 mg/g • Accuracy at 1 – 5 mg/g* = ± 0.2 mg/g • Accuracy at 5 – 20 mg/g* = ± 0.3 mg/g
Sample time	≤ 2 sec
Calibration	1 point (using the calibration plug)
Dimensions	169 mm (L) x 62 mm (W) x 25 mm (H)
Weight	235 (g)
Battery lifetime (handheld/digital)	48 h at 5 sec interval 2 weeks at 60 sec interval

*Only when adequately calibrated for the seeds to be measured.



For further questions, please do not hesitate to contact us

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