Ampha P20 - Pollen Analyzer

Pollen Cell Analysis with the Ampha P20

The Ampha P20 is the first fully portable and autonomous impedance flow cytometer for pollen analysis. Faster, easy to use, and portable - these are the features of the Ampha P20, making pollen analysis much more efficient, in plant breeding, production research and seed production.
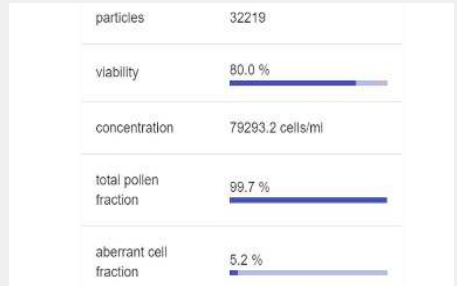
Portability	Ease of Use	Automated Data Analysis
• Integrated computer & batteries • Low transportation weight of 7.8 kg • Robust case • Dimensions 41 x 34 x 21 cm	• Integrated touchscreen with operation wizard • User friendly handling • Minimal cleaning and rinsing process times	• Immediate results for data-driven decision-making • Ideal for systematic screening and routine measurements • No experience in data analysis needed

Benefits of the Ampha P20

Portability
Pollen viability wherever it is needed and for species with an extremely short pollen lifetime: wheat, rice and corn. Optimization of processes at all stages where the viability of pollen is a success factor.

Ease of Use
The crop-specific microfluidic chips for the Ampha P20 are programmed with all the settings for fully automatic analysis. Only a few clicks are needed from the start of the instrument to the display of results.

Automated Data Analysis
The measurement results are displayed immediately at the end of the measurement. No manual gating and time consuming analysis of scatterplots is necessary. Decisions for further actions can be taken instantly.

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Pollen Analysis - Areas of Use

The Ampha P20 is an ideal instrument for the measurement of a large number of samples and for routine measurements wherever they are needed. With its new crop-specific microfluidic chips, The Ampha P20 offers fully automated solutions from the start of the measurement to data analysis.

Plant Breeding

- Phenotyping of lines directly in the field
- Characterization of short-lived pollen species
- Immediate results for data-driven decision-making

Production Research

- Data collection on site: in the field or in the greenhouse
- Immediate results for data-driven decision-making
- No training in data analysis required

Production

- Routine check of pollen quality anywhere
- Location independent, standardized results
- Immediate results for data-driven decision-making
- User friendly operation

Ampha P20 - Pollen Analysis Applications

Tomato	Pepper	Corn	Wheat
Application			
• Pollen viability • Cell concentration	• Pollen viability • Cell concentration	• Pollen viability • Cell concentration • Pollen count (pollen shed)	• Pollen viability • Cell concentration • Pollen count (pollen shed)
Chip			
• Tomato chip	• Pepper chip	• Corn chip	• Wheat chip
Buffer			
• AmphaFluid 10	• AmphaFluid 10	• AmphaFluid 11 • Ampha Count	• AmphaFluid 11 • Ampha Count

Contact

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