

Ampha Z40

Amphasys



THE LAB PLATFORM FOR POLLEN ANALYSIS

MORE INSIGHTS FOR PLANT BREEDING AND SEED PRODUCTION.

The **Ampha Z40** is the high-end laboratory instrument for precise, multi-parameter pollen analysis. It combines routine measurements of **pollen viability, and quantity**, with in-depth insights like determination of microspore developmental stages and pollen ploidy.



Universal

Suitable for all major crops, vegetables, ornamentals, and trees – over 250 species supported



Efficient

Comprehensive pollen phenotyping in just a minute



Flexible

Fully customizable protocols and gating strategies for advanced researches



Reliable

Proven technology with reproducible results – approved by all major seed companies

WHY IT MATTERS?

Measuring pollen quality is essential for **better line selection, efficient crop placement and optimized production patterns**. The Ampha Z40 enables breeders and producers to transform pollen data into valuable reproduction knowledge — for the improvement of breeding efficiency and seed production.

APPLICATIONS

The Ampha Z40 supports your complete pollen analysis workflow — from fundamental research to routine quality control in seed production.



Doubled Haploid Production

Identify microspore developmental stages

Predict embryo yield for DH production

Correlation of recalcitrant microspores with parental lines



Plant Breeding

Select high-performing lines based on pollen quality and quantity

Identify lines with pollen sensitive to abiotic stress

Improve breeding by precision pollen phenotyping



Production Research

Optimize female-to-male ratios and pollen usage

Improve flowering synchronization

Select most appropriate locations for crop placement



Seed Production

Verify pollen viability before pollination

Control pollen quality before and after transport

Develop pollen storage and dilution protocols

YOUR BENEFITS AT A GLANCE

Universal: One system for all pollen analysis tasks

Flexible: Tailor every protocol to your needs

Efficient: High-throughput pollen screening

Reliable: Quantitative, reproducible data for confident decisions

Get in Touch!

Discover how the Ampha Z40 can enhance your pollen analysis.



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