

# Pollen vitality analysis

## Easy, fast and accurate through flow cytometry

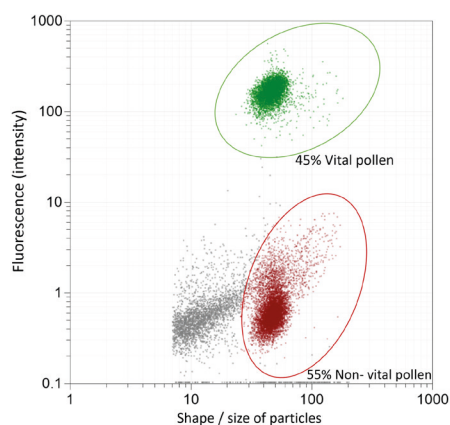
### Pollen Vitality

Making crosses usually is a straightforward process of taking pollen from one parent and placing them on another. But for many crops the results of these crossings can vary. There are multiple factors that influence the success rate of a crossing, but a major reason for low or no seed yield is *low vitality* of the pollen. The vitality of pollen can be influenced by many factors, including genetics, climate conditions, moment of collecting and time between collecting and pollination.

Pollen vitality can easily and accurately be measured using flow cytometry, measuring over 10.000 pollen individually in just *one minute*. With this tool, breeders gain valuable information about the *right moment to make a crossing* and the optimal storage conditions of the pollen.

### Iribov. Experts in flow cytometry

Since 1992, Iribov has been a trusted partner providing its expertise in plant-related flow cytometry to many agricultural companies internationally. Partnering with Quantum Analysis (Germany), Iribov is a trusted supplier of flow cytometry units specialised for plant related research.



### Equipment - Preparation - Measurements - Results

The 'Quantum P' flow cytometer in combination with the software 'CyPAD' makes measuring pollen vitality a simple and cost-effective process:

- ✓ Collect the pollen and mix them with the provided buffer.
- ✓ Add the provided reagent, and wait ~ 15 minutes.
- ✓ Insert the tube in the machine and directly see the results.

After the collection, the data can easily be exported to a spreadsheet to be freely customised. Optionally, the process can be partially automated using an auto-loader.

For more information about our method, a demonstration, pricing and any other questions please contact one of our experts or the accountmanager via [analysis@iribov.com](mailto:analysis@iribov.com)

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