



- Particle sizing and counting
- Aerosol generation, dilution measurement and Filter Testing
- Homogenisation
- Foam Analysis
- Dispersion stability, zeta potential, charge density, particle size analysis.

LUMiSizer - Dispersion Analyser



- Stability, shelf-life and Size analysis.
- 6-2300g centrifugal based acceleration
- Temperature control 4-60 °C
- Sizing range 20nm-100um
- 12 samples simultaneously
- Multi-Wave length light source

Compliant With:
ISO/TR 13097; ISO 13318-2; CFR 21 Part 11



Today

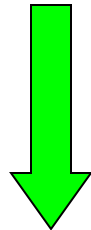


100 Days later...



Looking for Rapid Solutions?

- DEMIXING & STABILITY
- New FORMULATION
- ADDITIVE Selection



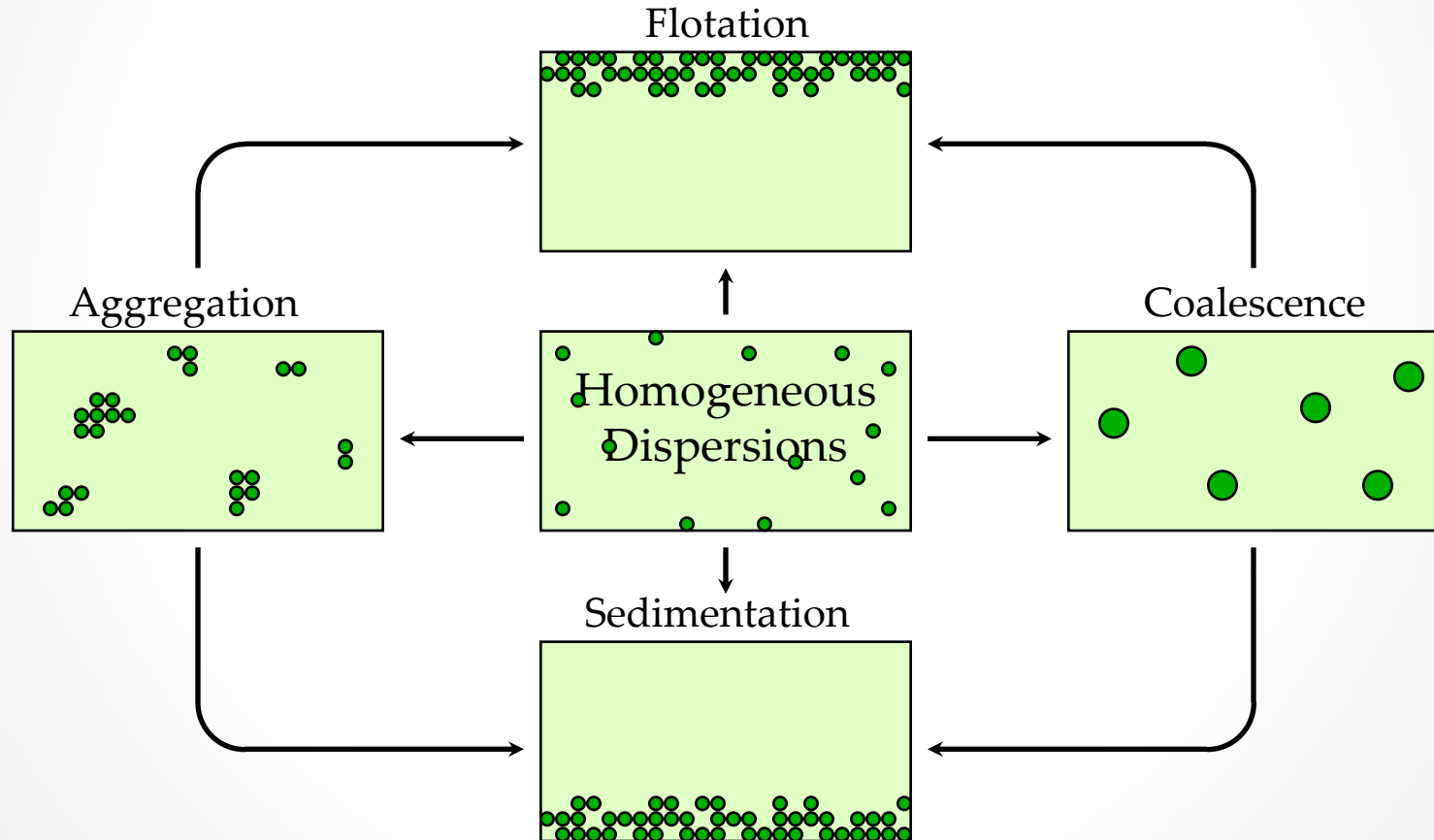
- SHELF LIFE Prediction
- Process OPTIMIZATION
- Preshipping QC

The Next STEP® in Dispersion Analysis



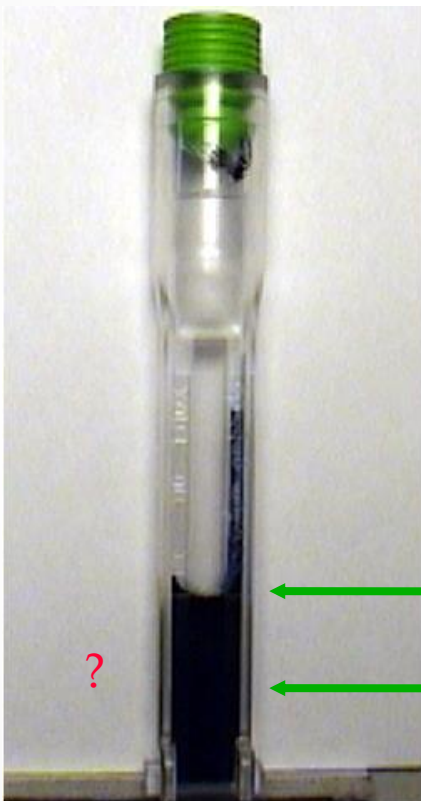
Stability - Instability

1. Particle - Migration - Problem
2. Structure-Variation - Migration Problem





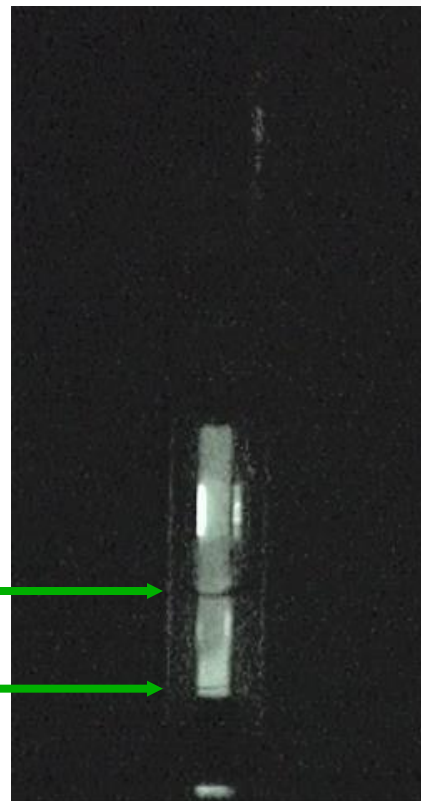
Visible Light



Meniscus

Sediment

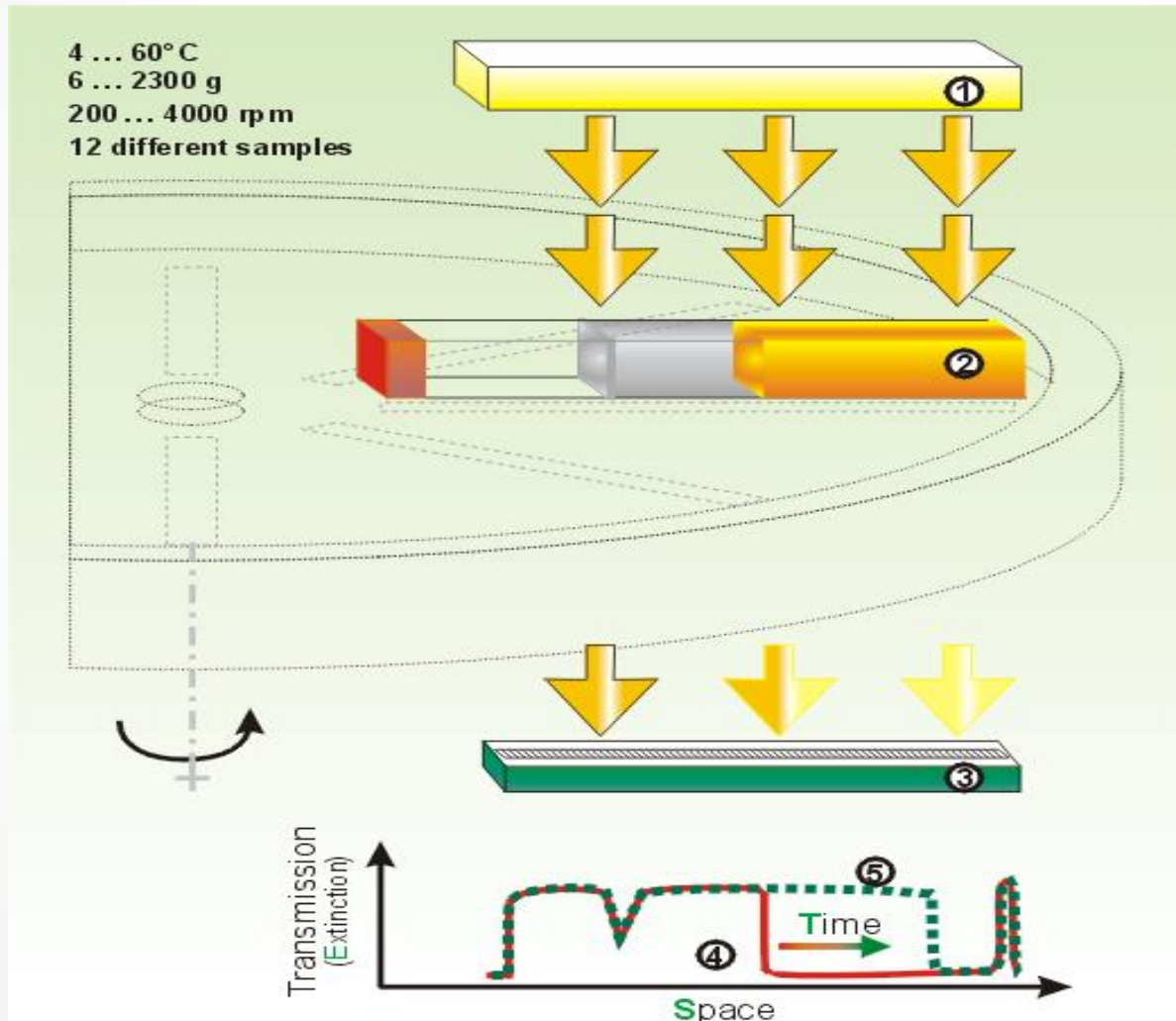
NIR Light



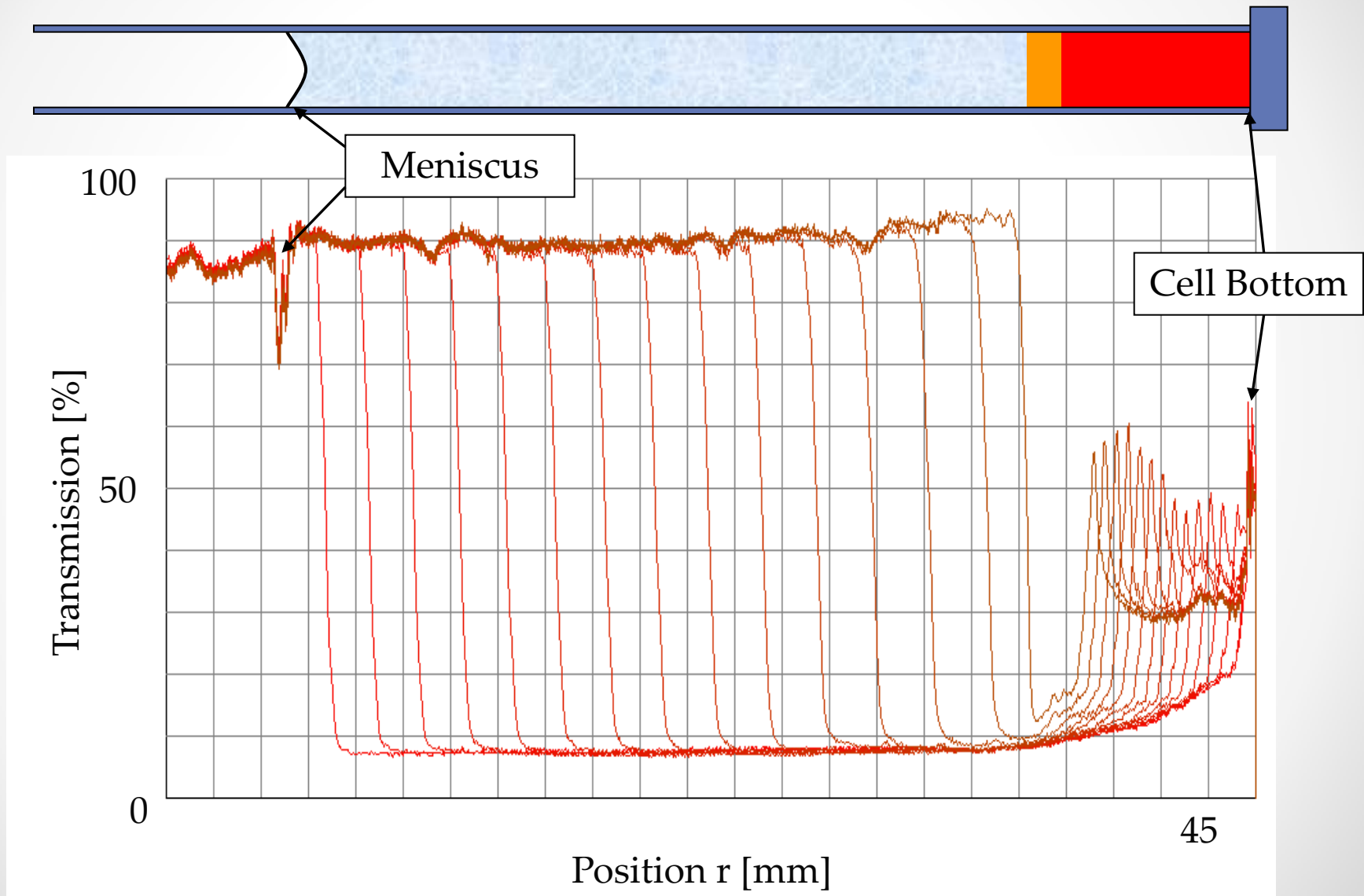
Alternatively blue light source possible



Space and Time resolved Extinction Profiles



Transmission profiles of spherical, uniform SiO₂ particles





PSI-20 Pharmaceutical Grade High Pressure Homogeniser



- Fixed Geometry Chamber
- 2000 bar operating pressure
- 60ml-20l/h throughput
- Open or closed loop
- Small and portable, low noise operation.



Thank you for listening.

www.adaptive-instruments.com