



PRESS RELEASE LUM FRANCE - FORUM LABO LYON 2018 - **STAND D13**

Ultimate instrument solution for comprehensive physical characterization of formulations

LUM is presenting the “*ultimate instrument solution*” for comprehensive physical characterization of formulations in the laboratory: The combination of the Multi-wavelength All-in-One-Dispersion Analyser **LUMiSizer® 651** the **LUMiReader® X-Ray**



Giving particle size distribution, separation velocity distribution and hydrodynamic particle density in addition to the direct stability result, **LUMiSizer® 651** permits in an easy way the analysis and evaluation of complex industrial products. Customers in industry benefit from significantly more applications compared to the well-known Stability Analyser **LUMiFuge®** or the NIR- (Near Infrared)- **LUMiSizer®**. High concentrated formulations as well as low concentrated suspensions and emulsions, featuring different optical properties can be measured with this new development in just one analyser, in an effective and cost-saving manner.

Applying the unique patented STEP-Technology® and the direct physical acceleration of the separation, comparative or predictive shelf-life analysis of original dispersions according to ISO/TR 13097 is done within a short time. Particle size distributions are determined according to ISO 13318. **LUMiReader® X-Ray** based on the same STEP-Technology® allows for real-time separation and consolidation fingerprinting in-situ visualisation of changes in homogeneity and sedimentation are especially important in ceramic, home and personal care industries, in the paints and pigment sector.

A typical three-step-characterization of formulation in just one sample cell & software:

1. **Dispersibility & pigment homogeneity** of formulation using **LUMiReader® X-Ray**
2. Physical acceleration the separation processes in **LUMiSizer®**. Determination of **sedimentation** or creaming velocities in shorter time than during storage on a shelf
3. In-situ visualization of **concentration gradients** in separated phases

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