

# TURBISCAN® TRI-LAB

## MULTI-SAMPLE MACROSCOPIC & COLLOIDAL STABILITY ANALYSIS



### Multi-sample Accelerated Stability Analyzer

#### FAST STABILITY MEASUREMENT ON UP TO 3 SAMPLES

Accelerate your stability measurement up to 1,000x faster than visual observation.

#### STABILITY QUANTIFIED AT A GLANCE

Turbiscan® Stability Index to rapidly quantify destabilization kinetics. Fast ranking for simple decision making.

#### SHELF LIFE UNDER REALISTIC CONDITIONS

Real stability determination without mechanical stress or dilution (concentration up to 95% v/v).

#### PARTICLE SIZE

Determination of mean particle size and its variation by Static Multiple Light Scattering (SMLS).



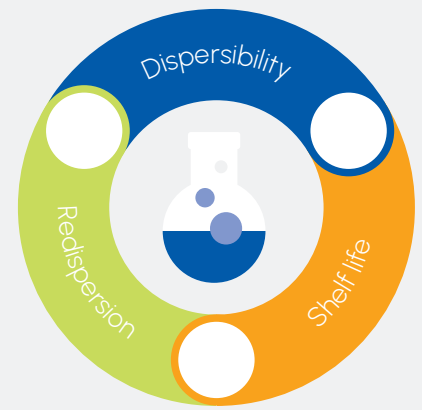
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**FORMULACTION**  
Scientific instruments

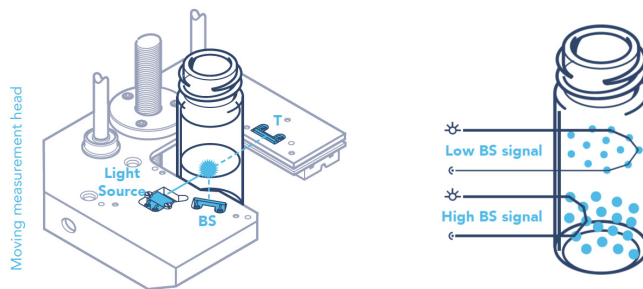


# MULTI-SAMPLE ACCELERATED STABILITY ANALYZER

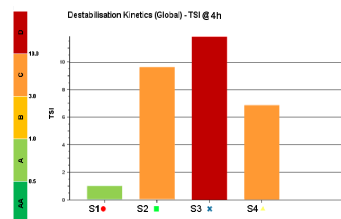
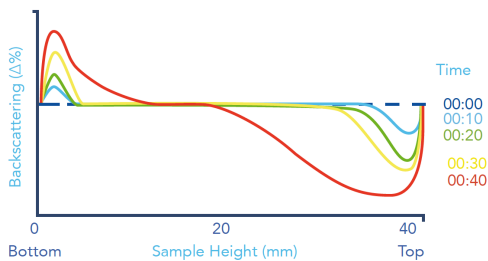
Turbiscan is the leading technology to detect, at an early stage, all kinds of destabilizations such as: coalescence, flocculation, creaming, sedimentation... Emulsions, suspensions, or foams can be studied at a full concentration range (up to 95%v/v) without dilution or sample denaturation. Combining the SMLS technology with the knowledge in formulation science, Turbiscan has become the solution of choice for a complete dispersion characterization (dispersibility, Shelf life, and redispersing properties).



## MEASUREMENT PRINCIPLE



Turbiscan uses Static Multiple Light Scattering (SMLS) to detect particle migration and size variation in liquid dispersions. A measurement head moves over the cell height and works with 2 synchronous detectors - Transmission (T) and Backscattering (BS) - this offers highly sensitive and reliable analysis of transparent to opaque samples even at high concentrations. T & BS signals are related to particle size and concentration and their variation is a sign of destabilization that is occurring. Turbiscan Tri-Lab acquires both destabilization kinetics and mean particle size data at any given time.



## KEY BENEFITS

### FAST AND SENSITIVE STABILITY DETERMINATION

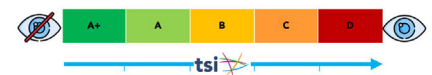
- 1,000 times faster than visual control
- Real storage conditions (no centrifugation or dilution)
- Accelerated stability analysis with 3 sample positions from 20 to 60°C to rapidly study stability.

### A COMPLETE INSIGHT TO FORMULATION PROPERTIES

Dispersion stability analysis (migration velocity, phase thickness, diameter kinetics), particle size (mean diameter, hydrodynamic diameter), dispersibility (dispersibility ratio) and redispersion testing (mean signal value comparison).

### SIMPLE AND INTUITIVE INTERFACE

- Global stability quantified with one number to make decisions faster. Instant reading on the LCD screen.
- Adapted TSI Scale for smart guidance to quality evaluation.

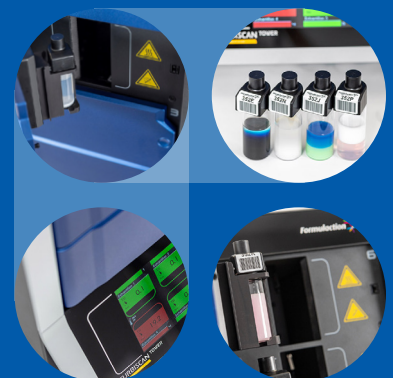


## APPLICATIONS



## TECHNICAL SPECIFICATIONS

Technology	Static Multiple Light Scattering (SMLS)
Sample volume	1.5 - 30 mL
Temperature range	20 - 60°C
Number of Samples	1 - 3
Sample concentration	0.0001 - 95% v/v
Measured size range	10 nm - 1 mm
Reproducibility / Repeatability on latex standards	+/- 0.05% / 0.05%
Automatic sample recognition (bar-code)	Yes
ISO Compliant	TR 13097, TR 1881I, TS 22107, TS 21357
Dimensions	38 x 48 x 58 cm



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