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).



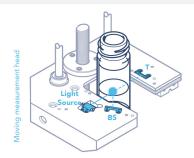
MULTI-SAMPLE ACCELERATED STABILITY ANALYZER

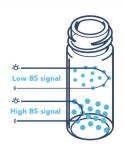
Turbiscan is the leading technology to detect, at an early stage, all kinds of destabilizations such as: coalescence, flocculation, creaming, sedimentation...Emulsions, suspensions, or foams can be studied at a full concentration range (up to 95%v/v) without dilution or sample denaturation. Combining 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).



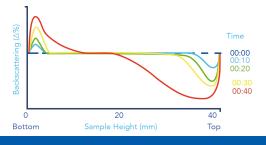


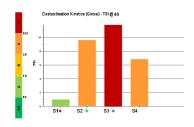
MEASUREMENT PRINCIPLE





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 occuring. Turbiscan Tri-Lab acquires both destabilization kinetics and mean particle size data at any given time.







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.













Oil & Petroleum





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 18811,	TS 22107, TS 21357
Dimensions		38 x 48 x 58 cm





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