

TURBISCAN®LAB

PHYSICAL STABILITY & SIZE ANALYSIS OF LIQUID DISPERSIONS



The Reference Stability Analyzer

ANALYSIS IN NATIVE STATE WITHOUT DILUTION

Sedimentation,
aggregation, creaming...
characterization on native
formulation.

THE REFERENCE TECHNOLOGY TO FASTER STABILITY TESTING

TURBISCAN® is the
most used technology
for stability and shelf
life studies.

STABILITY SCALE AND RANKING

A single value (TSI)
calculated for each
sample to assess and
compare different
formulations.

PARTICLE SIZE

Determination of mean
particle size and detection
of size variation in
concentrated media.



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FORMULACTION
Scientific instruments

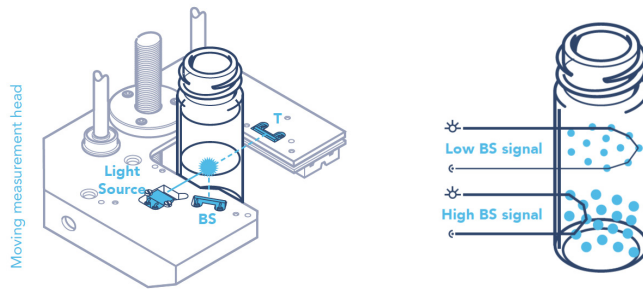


TURBISCAN - THE REFERENCE STABILITY ANALYZER

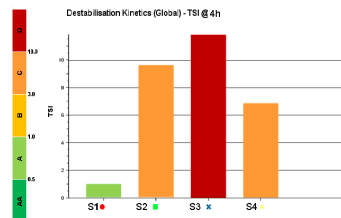
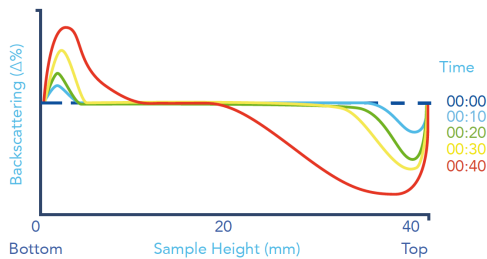
TURBISCAN is used worldwide to detect and quantify early stage destabilization, such as aggregation & flocculation, coalescence, sedimentation, and particle migration. This provides formulators a fast and reliable answer on stability measurement. Emulsions, suspensions and foams can be studied at full concentration (up to 95% v/v), without dilution or sample preparation for a real & fast stability measurement.



MEASUREMENT PRINCIPLE



Turbiscan LAB 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 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 LAB acquires T & BS intensity every 40µm and at time periods adapted to destabilization phenomenon kinetics (short or long-term stability).



APPLICATIONS



TECHNICAL SPECIFICATIONS

Technology	Static Multiple Light Scattering (SMLS)
Sample volume	4 or 20 mL
Temperature range	RT - 60°C
Number of Samples	1
Sample concentration	0.0001 - 95% v/v
Measured size range	10 nm - 1 mm
Reproducibility / Repeatability on latex standards	0.1% / 0.05%
Acquisition scan step	40 µm
Automatic sample recognition (bar-code)	Yes
ISO Compliant	TR 13097, TR 18811, TS 22107, TS 21357
Dimensions	38 x 42 x 32 cm
Weight	13 kg



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