TURBISCAN TOWER





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UP TO 6 SAMPLES Simultaneous comparison of destabilization kinetics in colloidal formulations.

SHELF LIFE

TURBISCAN TOWER

CONDITIONS Real stability determination

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ACCELERATED AGING

Temperature control from 4 to 80°C to accelerate destabilization or apply real storage conditions.

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PARTICLE SIZE Determination of mean particle size and detection of size

MULTISAMPLE STABILITY & SIZE ANALYSIS OF LIQUID DISPERSION

STABILITY & SIZE





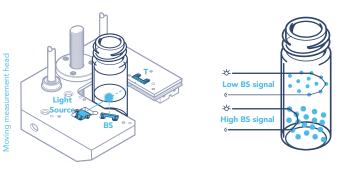
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MULTISAMPLE STABILITY ANALYZER

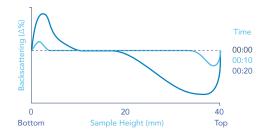
TURBISCAN® is used world-wide to detect at an early stage all kinds of destabilization such as coalescence, flocculation, creaming, sedimentation...Various products (emulsions, suspensions, foams...) can be studied at full concentration range (up to 95%v/v) without dilution or sample preparation.



MEASURELMENT PRINCIPLE



TURBISCAN[®] uses Static Multiple Light Scattering 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 TOWER acquires T & BS intensity every 20µm and at time periods adapted to destabilization phenomenon kinetics (short or long-term stability).



KEY **BENEFITS**

FAST AND SENSITIVE STABILITY DETERMINATION

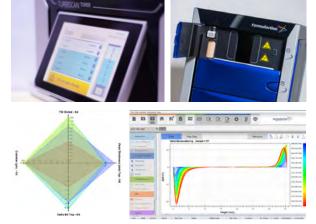
- 200 times faster than visual control
- Real storage conditions (no centrifugation or dilution)
- Accelerated stability analysis with 6 sample positions at unique temperature to rapidly compare formulations.

A COMPLETE INSIGHT TO FORMULATION PROPERTIES

Long term stability analysis, mean diameter and size variation, phase thickness, dispersibility ratio, volume fraction, migration velocity...

SIMPLE AND INTUITIVE INTERFACE

- Turbiscan Stability Index- evaluate and compare formulation stability with one number. Make decisions faster.
- Automatic reporting and multi user accounts



APPLI**CATIONS**



TECHNICAL SPECIFICATIONS

Technology	S-MLS 880 nm
Sample Cell Volume	4 or 20mL
Temperature range	4 - 80°C
Number of Samples	6
Sample concentration	0.0001 - 95% v/v
Measured size range	10 nm - 1mm
Reproducibility / Repeatability	0.05% / 0.05%
Acquisition scan step	20µm
Automatic sample recognition (bar-code)	Yes
ISO Certification	TR 13097 Compliant
Dimensions	38 x 45 x 90 cm
Weight	45 kg



