

# TURBISCAN<sup>®</sup>AGS

## HIGH-THROUGHPUT STABILITY ANALYSIS OF LIQUID DISPERSIONS



### High-Throughput Stability Analyzer

#### FAST & AUTOMATED TESTING ON UP TO 54 SAMPLES

54 sample positions and an autosampler for high throughput stability evaluation.

#### ACCELERATED AGING

Storage conditions from room temperature up to 60°C with 3 independent storage racks.

#### SHELF LIFE CONDITIONS

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

#### STABILITY SCALE AND RANKING SIZE

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

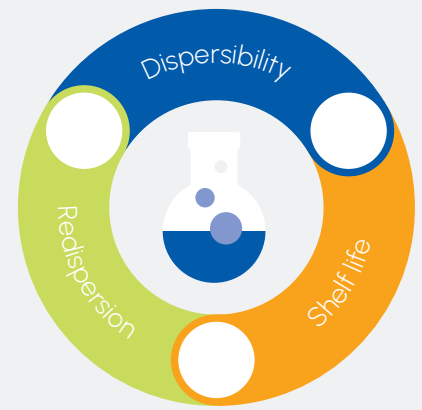


BLG KİMYA TEKNOLOJİLERİ SANAYİ VE TİCARET LTD. ŞTİ.  
Bilmo San. Sitesi Yanyol Cd. Melodi Sok. No: 2/17 34953 Tuzla-İstanbul  
T: +90 216 455 4371/72 F: +90 216 455 4373  
info@blgkimya.com www.blgkimya.com

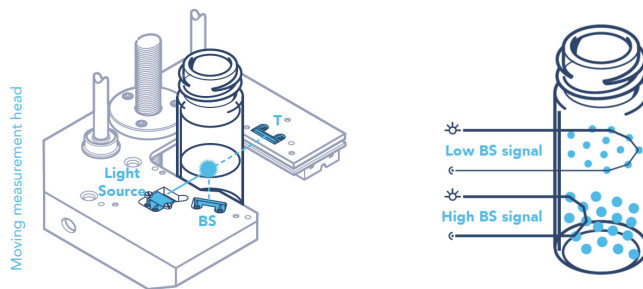
**FORMULATION**   
Scientific instruments

# MULTI-SAMPLE ACCELERATED STABILITY ANALYZER

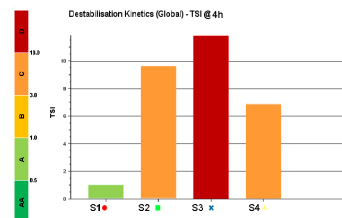
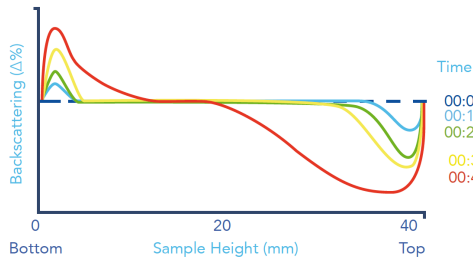
Turbiscan is the leading technology to detect, at an early stage, all kinds of destabilizations such as: coalescence, flocculation, creaming, sedimentation... Emulsions, suspensions, or foams can be studied at a full concentration range (up to 95%v/v) without dilution or sample denaturation. Combining 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 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 AGS acquires T & BS intensity every 40µm and at time periods adapted to destabilization phenomenon kinetics (short or long-term stability).



## KEY BENEFITS

### FAST AND SENSITIVE STABILITY DETERMINATION

- 1,000 times faster than visual control
- Real storage conditions (no centrifugation or dilution)
- 54 sample positions with 3 independent and thermally controlled storage racks

### 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

Evaluate, compare and rank sample stability with one click and one parameters thanks to the Turbiscan Stability Index. Make fast decisions based on fact. Intuitive software and automatic reporting.

## APPLICATIONS



## TECHNICAL SPECIFICATIONS

Technology	S-MLS 880 nm
Sample volume	20 mL
Temperature range	RT - 60°C (3 racks)
Number of Samples	54
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 1881I, TS 22107, TS 21357
Dimensions	145 x 75 x 85 cm



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