

ASURYAN UV-VIS

Innovative solution for analyzing the purity and composition of liquids in biotechnology and chemistry

Protein
purity

COD/BOD

Color

Analysis
of oils

Detection of
nanoparticles



The Asuryan UV-VIS spectrometer is specially designed for critical applications in industry, such as:

- testing in biotechnology (protein purity and quantification)
- detection and quantification of nanoparticles
- analysis of waste water (e.g. residual concentration of the active ingredient in the pharmaceutical industry)
- analysis of beverages
- analysis of dissolving processes

TECHNOLOGY: The Asuryan UV-VIS system is based on a new spectrometer and a light source with a wide optical spectrum from 200 nm to 660 nm, offering numerous sample analysis possibilities

FOR EXAMPLE: UV: 200-400 NM -> proteins, active ingredients, COD, H2S, BOD, nanoparticles

VIS: 400-660 nm -> color, hemoglobin, bilirubin, phosphates

Equipment: 2 configurations



1 CHANNEL

- 1 light source
- 1 spectrometer
- Correction of light source fluctuation
- Stainless-steel unit with SMA connectors for sensors
- High-speed analysis (typically 10 ms)
- External PC required

3 CHANNELS

- 1 light source
- 3 spectrometers
- Compatible with SFX multi-angle sensor (35, 170 & 180°)
- Stainless-steel unit with SMA connectors
- High-speed analysis (typically 10 ms)
- External PC required

Communication with the production systems

OPC-UA communication (SyntQ, Process Pulse, SIPAT, SIMCA online)

Import of models (such as PCA / PLS) for real-time analysis (up to 4 models in parallel)



Flexibility

Various sensor options available including:

- Transflective sensor
- ATR sensor
- Small-diameter flow cell
- ATEX sensor

Applications :

Biotechnology and pharmacy

- Prediction of the protein concentration in a continuous process
- Water analysis to identify the residual concentration of the active ingredient
- Confirmation of powder dissolution in a liquid

Agri-food and consumer goods

- Color analysis for detergent products
- Color analysis for beverages

Water

- COD, BOD
- Turbidity
- Hydrocarbons

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