

UV-SPECTOR APPLICATION

Increased Efficiency in Cleaning Processes (CIP)
with Real-Time Analysis Data



In the cleaning of production equipment in active ingredient synthesis, UV spectroscopy is used for determination of active agent concentrations down to the ppm range. To check the cleaning progress, the fiber-optic inline process spectrometer UV-SPECTOR is used in combination with a transmission flow cell or a immersion probe. To provide information about measured absorptions in the spectral range from 200 nm to 750 nm, active agent concentrations – and therefore the cleaning progress – are available almost in realtime during the cleaning cycles. The cleaning of the production equipment ends when the remaining active agent falls below a defined concentration. This avoids unnecessary washing cycles and results in increased equipment availability.

Since organic solvents are used in many cleaning processes, UV-SPECTOR can also be equipped with a pressure tight housing in accordance with EEx d IIc T6.

The Clear Advantages at a Glance

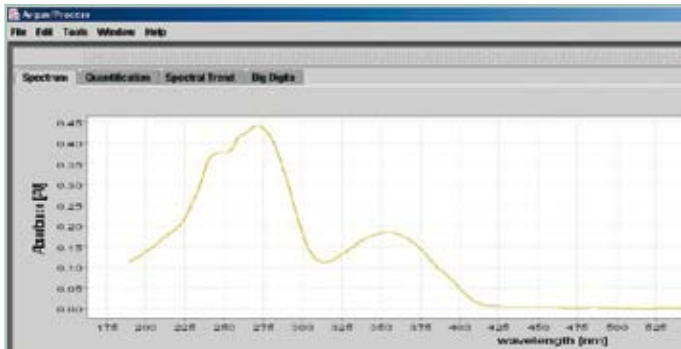


- Inline spectrometric process control
- Real-time multicomponent analysis
- Up to 6 measuring points per spectrometer
- Verifiable process capability
- 21 CFR Part 11-compliant software
- ATEX-certified for use in Ex zones
- Easy to operate

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Process Adaptation

For direct installation in the reactor, ZAFIRO-type fiber-optic immersion probes are used. For measurements in the outlet or pump line, transmission flow cells, e.g. MONITOR or BIOPRO type, are available.

Depending on the spectral range, optical windows made of sapphire or quartz are used. FDA-certified sealing rings of various materials such as EPDM, Viton®, silicone or Kalrez® are available as standard. The adjustable optical path length enables a flexible adaptation to different concentration ranges.



Total Service – from Spectrometers to a Complete Range of Accessories

We offer much more than just process spectrometers. Our fiber-optic probes and comprehensive accessory program include everything you need to implement a measuring point directly into your biopharmaceutical production process.

Ask us about the optimal solution for you.



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