

Viserion[®] 785

Faster process development and better production efficiency with Viserion[®] 785 Raman solution

Nutriments

Metabolites

Upstream
Downstream
Process

Single-use
compatibility

In-situ
monitoring



Measure up



The Pharmaceutical industry has been reliant upon combinatorial chemistry for API discovery and production, but finding new drug candidates is more and more challenging. However, Biotechnology has demonstrated the ability to produce new drugs and blockbusters, and it is now a critical strategic domain. This process relies on living organisms and is far more complex to understand than conventional chemistry, and the ability to **develop a robust and reproducible bio-process with high productivity is highly desirable.**

The Viserion® Raman Analyser @ 785nm will improve financial performance with faster process development times and enhanced process understanding using a QbD approach. It enables a significant reduction of laboratory analyses, fast in-situ analysis of critical process parameters and attributes, and yield optimization.

Upstream Process (USP)

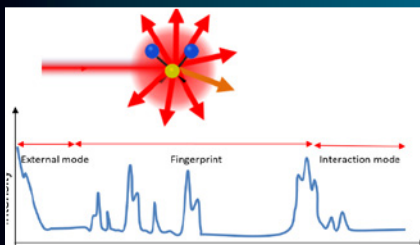


- Quantitative analysis of nutriment and metabolites
- Pilot to large production scale-up
- Laser safety interlock option
- OPC-UA for communication with PLC
- Industrial stainless steel enclosure
- Simultaneous multichannel batch capabilities

Downstream Process (DSP)



- Specific flow cell for 1/8 connector
- Prediction of purity
- Abnormal spectra / event identification
- Product identification
- Start point/end point detection
- Single-use compatibility



Viserion® at a glance

- The Raman effect is based on inelastic scattering of photons
- The sample generates emissions under laser illumination
 - the wavelength shift provides chemical information
 - the intensity provides component concentration
- High chemical information and reduced impact of water
- In-situ monitoring with a wide range of probe customization options available

Typical Performance (e.g. CHO cell culture)

Parameter	Error (Range) in g/l
Glucose	0.35 (0-10)
Lactate	0.30 (0-8)
Ammonium	0.30 (0-7)
Antibody concentration, VCD, glutamate, plasma compounds, etc.	

21CFR Part 11 compliance
Full IQ/OQ/PQ support
GMP compliance

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