

ORGANIC AND INORGANIC MATERIALS

Quality Control of Bulk Materials

The Complete & Compliant Solution.

Innovation with Integrity

Developing and manufacturing pharmaceutical products is subject to the strict rules of good laboratory and manufacturing practices. To satisfy that, Bruker offers a complete solution for any type of material, e.g. raw materials, intermediates or finished products. This includes the analytical instrumentation and software in full compliance with the current pharmaceutical regulations.

Carefree Package

- cGMP, GLP compliance
- Fully automated system test routines for OQ & PQ including tests for USP, JP and Ph.Eur.
- 21 CFR part 11 compliant electronic records & signatures ensuring Data Integrity
- Global audit trail
- Comprehensive system validation manual
- . LIMS connection
- · Comprehensive services (IQ/OQ/PQ & maintenance)

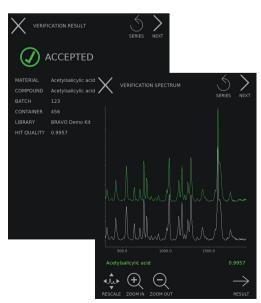


Fig. 1
QC-workflow example of BRAVO.

Bruker's QC-Spectrometer Team

Bruker offers a variety of spectrometers suitable for every QC-task in the pharmaceutical industry. With vibrational spectroscopy (ALPHA II, BRAVO and MPA II) you get access to the molecular composition of the bulk material, while the elemental composition information is provided via XRF spectroscopy (S2 PUMA Series 2). Have a look at what suits best for your application:

ALPHA II

The ALPHA II is a compact **FT-IR spectrometer** with the footprint of the size of a laptop. Enhance your QA/QC processes across incoming goods, intermediates, and finished products.

Features: RockSolid™ interferometer, robust metal housing, user-friendly touch software

Samples: Organics (powders, solids & liquids)

BRAVO

BRAVO is THE **handheld Raman spectrometer** dedicated for fast raw materials identification and verification with optimal spectrum quality and an unrivalled bunch of features and various accessories.

Features: Measure through packaging, fluorescence mitigation (SSE™), laser class 1

Samples: Organics & inorganics (powders, tablets, solids & liquids)

MPA II

Get the complete **FT-NIR spectrometer** solution with the MPA II for your daily QA/QC work, but also for sophisticated method development studies. Due to the modular design, the instrument can easily be adapted to your needs.

Features: Measure through glass, use of fiber optics, automated sample wheel

Samples: Organics (powders, tablets, solids & liquids)

S2 PUMA Series 2

With our **XRF spectrometer** S2 PUMA Series 2 you can measure the elemental composition of your samples within minutes. The sample preparation is fast and easy (no digestion, no dilution). The spectrometer can be operated 24/7: No daily re-calibration required!

Features: Raw material ID (SMART-QUANT), rapid catalyst residual testing, XY autochanger

Samples: Inorganics (powders, tablets, solids & liquids)

















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Online information

about raw materials