



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)**



Bruker Optics is continually improving its products and reserves the right to change specifications without notice.
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**Bruker Optics is ISO 9001, ISO 13485,
ISO 14001 and ISO 50001 certified.**

**Online information
about raw materials**

