



TRUSTED
PARTNER IN THE
PHARMACEUTICAL
INDUSTRY

ELEMENTAL SOLUTIONS FOR PHARMACEUTICALS

BENCHTOP XRD & XRF

FROM PRE FORMULATION TO QUALITY CONTROL:

Benchtop XRD & XRF provide a powerful combination for pharmaceutical analysis

Benchtop X-Ray Diffraction (XRD) is a versatile analysis tool for physical characterization of pharmaceutical compounds.

Benchtop Energy Dispersive X-Ray Fluorescence (EDXRF) allows the quantification of elemental impurities and rapid identification of materials.

Ideal Solutions for Pre-Formulation and Formulations:

- Solid form screening, selection and characterization
- Stability and compatibility testing
- Define process and quality control methods
- Process chemistry and scale-up
- Regulatory compliance
- Quality of incoming goods
- Final product quality testing

Pre-Clinical &
Phase 1-3 Clinical



Quality Control

Bruker benchtop X-ray solutions for the analysis of pharmaceuticals

Bruker D2 PHASER Benchtop XRD for powder diffraction and structural analysis

- Easy-to-use, full pattern acquisition of pharmaceutical samples in a few short minutes
- Determine polymorphism, crystallinity, crystallite size and structure
- Qualitative phase analysis, reactivity and stability of materials



Bruker S2 PUMA Benchtop EDXRF for viable and efficient material identification and quantification of elements present

- Incredibly fast raw sample-to-result turnaround time
- Rapid elemental analysis for raw materials from Na to Am with the S2 PUMA LE
- Final product testing for impurities –analysis of heavy elements, stainless steel residues, The Big Four (As, Cd, Hg, Pb), and process elements (Ni, Pd, Pt, Rh, Ru, and more)
- SMART-QUANT FP is a powerful standardless Fundamental Parameter solution which allows for quick analysis of completely unknown samples



Clear Advantages for the Pharmaceutical Industry

- Easy and short sample prep – no digestion required
- Recovery of sample for additional testing
- Reduced waste stream
- Unattended operation (no flame or plasma safety risk)
- Robust and stable methods
- Extended lifetime and reduced operational costs

