

XRPD



Assay Protocol

Compound Requirements

0.5 mg dry powder (material can be reclaimed for subsequent solubility analysis)

Analysis Method

Bruker D8 Powder X-ray diffractometer

- 2-theta range from 4 to 40 degrees
- Step size: 0.04 degrees
- Step time: 1 second

Data Delivery within 5 business days

Intensity (CPS)

Plot of Intensity as a function of degree

Cost

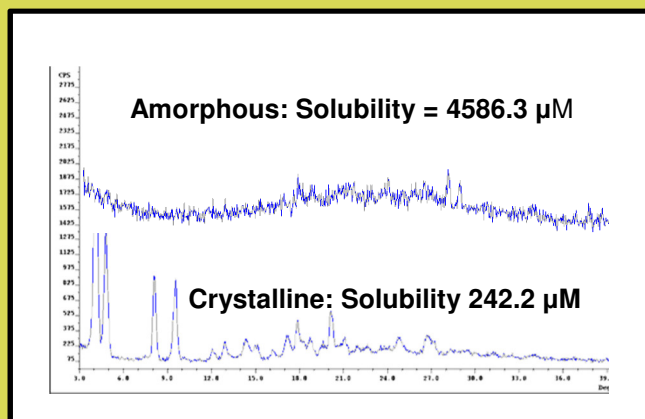
\$150.00

Fast, Accurate and Affordable...

Data should be accurate and unambiguous even during discovery. X-ray diffraction analysis can avoid downstream surprises and costly development delays due to ambiguous solubility measurements but is often not obtainable during discovery due to the mg quantities of material required for analysis. We've scaled back the requirements to 0.5 mg which can be reclaimed for subsequent solubility analysis.

True solubility of a substance is the solubility of its most stable form in equilibrium with the solvent; an amorph will have significantly higher apparent solubility than any of its crystalline forms. When thermodynamic solubility data is obtained on early discovery compounds the measured solubility is often artificially high due to their amorphous nature which can ultimately lead to ambiguous in-vitro and in-vivo data.

Effect of Crystalline Structure on Solubility



3615 Superior Ave.
Suite 4407B
Cleveland, OH 44114
216-432-9050
www.analiza.com