



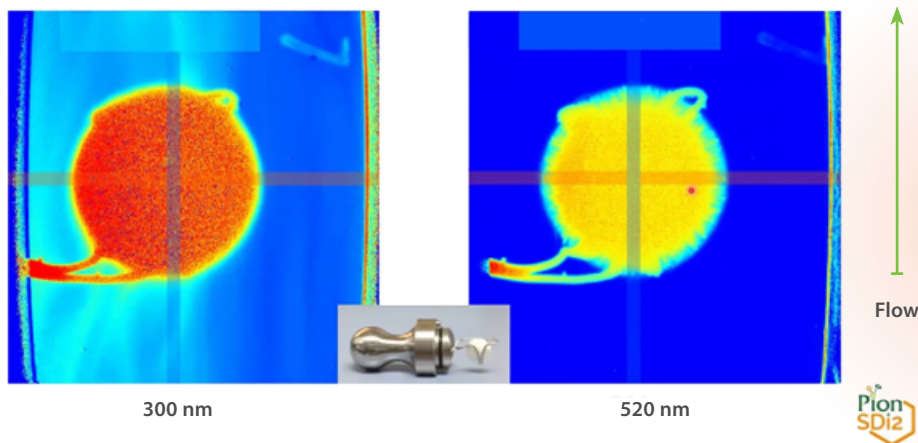
Solid Dose Surface Dissolution Imaging

Pion Analytical Services offers next-generation, high-resolution, visible and UV imaging to investigate the physical processes occurring at the solid-liquid interface during solid dose drug dissolution.

The SDi2 instrument is ideal for quantifying swelling, erosion and disintegration kinetics of a range of whole dosage forms. The SDi2 uses a powerful 4.2 megapixel ActiPix™ detector to record ultraviolet and visible light intensity data in real-time and in two dimensions. It produces high resolution videos that record dynamic processes as they happen. The SDi2 uses a fully integrated fluidics system with a choice of two different flow cells to cover a broad range of applications and sample types.

The miniaturized SDi2 platform, is also used to record images of the dissolution process at the surface to rank-order Intrinsic Dissolution Rate IDR ($\mu\text{g}/\text{min}/\text{cm}^2$) and visualize the dissolution of APIs and salts during early development.

Dual Wavelengths



KEY DELIVERABLES:

A full study report is provided. Reports include: sample and customer details, the IDR (mass/time/area) for each sample for the chosen buffer system, images of the dissolution process and statement of methodology.



The SDi2 Surface Dissolution Imaging System collects real-time video of dissolving tablets

Why Use Pion

Pion scientists are established as the world's experts in surface dissolution imaging analysis using our unique SDi2 which integrates ActiPix™ detection technology, exclusively licensed through Paraytec, to investigate physical processes occurring at the solid-liquid interface during dissolution. The SDi2 uses a powerful camera ActiPix™ detector to record ultraviolet and visible light intensity data in real-time and in two dimensions. It produces high resolution videos that record dynamic processes as they happen.



SDi2 Compact Flow-cell Analysis

Analysis	Part #	Details
Gold Standard SDi2 Aqueous	1811101	Price per sample, in duplicate, 100mg
Gold Standard SDi2 Biorelevant	1811102	Price per sample, in duplicate, 100mg
Gold Standard SDi2 Excipients	1811104	Price per sample, in duplicate, 100mg
Platinum Standard SDi2 Aqueous	1811111	Price per sample, in duplicate, 100mg
Platinum Standard SDi2 Biorelevant	1811112	Price per sample, in duplicate, 100mg
Platinum Standard SDi2 Excipients	1811114	Price per sample, in duplicate, 100mg

SDi2 Whole-dose Flow-cell Analysis

Analysis	Part #	Details
Gold Standard SDi2 Aqueous	1811201	Price per sample, in duplicate, determined upon enquiry
Gold Standard SDi2 Biorelevant	1811202	Price per sample, in duplicate, determined upon enquiry
Gold Standard SDi2 Excipients	1811204	Price per sample, in duplicate, determined upon enquiry
SDi2 Comparison Study – Batches/Coatings/Capsules	1811205	Price per sample, in duplicate, determined upon enquiry
Platinum Standard SDi2 Aqueous	1811211	Price per sample, in duplicate, determined upon enquiry
Platinum Standard SDi2 Biorelevant	1811212	Price per sample, in duplicate, determined upon enquiry
Platinum Standard SDi2 Excipients	1811214	Price per sample, in duplicate, determined upon enquiry



With analysis that can be tailored to your specific application, Pion's Analytical Services provides the vital information missing from your research.

