

ANALYTICAL TECHNIQUES AVAILABLE AT KEANE ANALYTICAL

All carried out to GMP. Instruments / Techniques available include:

- HPLC
 - Isocratic and gradient
 - Photodiodearray detection (includes Hg lamp calibrator)
 - Ultra violet/visible detection (λ accuracy self verification)
 - Autosampler injection
 - PC control and acquisition (CFR part 11 compliant)
 - ChromSword chromatography development software
- GC
 - Capillary and packed column
 - Split/splitless injection
 - Static headspace via autosampler
 - Electronic pressure or flow control
 - Autosampler injection
 - Flame ionisation detection
 - PC control and acquisition
- Ion chromatography
 - Isocratic and gradient
 - Anion and cation chromatography
 - Eluant generation for anion or cation chromatography
 - Conductivity detection
 - PC control and acquisition (CFR part 11 compliant)
- Dissolution
 - USP 1, 2 and 4 (flow through apparatus)
 - Equivalent to EP 1, 2 and 3 (flow through apparatus)
 - Includes NIST traceable physical calibrator set
- Ultra violet and visible spectrophotometry
 - Wavelength drive
 - Eight cell or flow-through capability
 - Split beam
- Atomic Absorption and atomic emission spectrophotometry
 - Air/ acetylene or nitrous oxide/ acetylene
 - Background correction

ANALYTICAL TECHNIQUES AVAILABLE AT KEANE ANALYTICAL

All carried out to GMP. Instruments / Techniques available include:

- Infra red spectrophotometry
 - Dispersive split beam
- Inhaler testing equipment
 - 2 x Anderson Impactors Type AC1(A)
 - 4 x Copley DUSA for MDIs
 - Copley TPK critical flow controller
 - Busch vacuum pump Type SV 1040B
 - Copley DFM2 flow meter
 - 2 x Copley flowmeters Type DFM 2000
- Microscope
 - Photography facility
 - up to 1000X magnification
- Flame Photometry
- Furnace
 - Time and temperature programmable
 - 50 to 1100°C
- High purity water to Laboratory Grade I and II on tap
- Hardness meter (resistance to crushing)
- Kjeltex extraction
- Refractive Index and Degrees Brix
- Viscometer
 - plus Helipath stand
 - T bar or disc spindle sets
- pH meters with printout
- Ion Selective potentiometric meters with printout
- Titrations including autotitrator with printout
- Karl Fischer
- Friabilator

ANALYTICAL TECHNIQUES AVAILABLE AT KEANE ANALYTICAL

All carried out to GMP. Instruments / Techniques available include:

- Disintegration apparatus
- Shaking water bath
 - linear or oscillating
 - 25°C to 100°C
- Optical Rotation
- Lovibond Tintometer
- Digital Osmometer
- Four metres of Fume hood space
- Class 1 Toxicab for toxic volatiles, carcinogens, dusts, acids and aerosols
- Three bench top centrifuges
 - Fixed angle and swing out
 - Rcfg to 15000g
- Microfuge
 - 24 place eppendorf to 12000g
- Oven
 - Time and temperature programmable
 - 30 to 220°C
- Analytical balances
 - internal calibration facility with printout
 - 4 dp
 - 10mg to 210g
- Top pan balance
 - internal calibration facility
 - 1dp
 - 1g to 1.51kg
- Digital density meter
- Carbonation tester
- Merck RQflex 2 meter
- Direct links with local cGMP organisation for NMR, mass spectrometry and elemental analysis