



# ALS Equipment list 2021

YOUR FIRST CHOICE FOR ANALYTICAL TESTING SERVICES

## Instrumentation

Type	Number	Make/Model	Comments
HPLC	1	Waters – Alliance	UV Detector
	2	Agilent 1100	1 DAD, 1 VWD
UPLC	7	Thermo Dionex Ultimate 3000	Diode Array Detector + 1RID
	10	Thermo Dionex Ultimate 3000	Variable Wavelength Detector + 2 RI Detectors
GC	2	Thermo Trace 1310	Liquid + Headspace Injection
	1	Agilent 6890	Liquid + Headspace Injection
	1	Agilent 5890	Liquid Injection
	1	Perkin Elmer AutosysXL	Liquid Injection
IC	1	Dionex ICS1500	Conductivity Detector with Reagent Free Controller
	1	Dionex IC Intergron	
AA	1	Varian SpretAA 50B	-
Viscosity	1	Anton Paar 300L	Low level viscosity
	1	Anton Paar 300R	High level viscosity With Small Sample Adapter
UV/Vis	1	Mettler Toledo UV7	With auto-sampler
IR	1	Perkin Elmer Spectrum TWO	(lithium tantalite, MIR detector, wavelength range 8,300 – 350 cm <sup>-1</sup> ) Accessories:PIKE Miracle ATR KBr Disc
Dissolution	5	Distek 2100	Baskets and Paddles
	1	Distek 6100	Bathless – baskets & paddles
	1	Vankel VK700	Paddles Only
Optical Rotation	1	Optical Activity AA-10R	-
TOC	1	GE Sievers M9	-
Melting Point	1	Stuart SMP30	-
Conductivity	1	Thermo Orion Star A212	-
Karl Fischer	1	Thermo Orion AF-8	Volumetric
	1	Metrohm	Volumetric + Coulometric
	1	Mettler Toledo T5	Volumetric



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Type	Number	Make/Model	Comments
Partial counter	1	APSS-2000	-
Osmometer	1	Advanced instruments OsmoTECH	-
Auto titrator	1	Mettler Toledo T9	Aqueous & non-aqueous titrator
Endotoxin Analyser	2	AOCC – Pyros Kinetic Flex	
Other Miscellaneous Equipment	2	Friabulator	Ereke & Pharmag instruments Sensic 3200 & Copley ezTab & Dr Schleuniger 8M Index instruments GPR1137
	2	Disintegrator	
	2	Hardness meter	
	1	Refractometer	
	2	Drying Ovens	
	1	Muffle Furnace	Aldelphi UK Apollo II Liquid Viewer Jasco FP1520 Mettler HC103
	1	Vacuum Oven	
	1	Viewing Station (Visible Particles)	
	1	Fluorescent detector	
	1	Halogen moisture balance	

## Lab Facilities

Item	Comments
Fume hoods	4 ducted, 1 recirculation, 9 extraction arms, 1 bio-safety cabinet
Cytotoxic Extraction Cabinet	1
Flexible Isolator	1
Sonicators	4 varied in size
Orbital shakers	1
Wrist action shakers	3
Rotary evaporator	1
pH meters	2
furnace	1 up to 800C
ovens	2 up to 300C
Centrifuge	1
Water system	Integrated DI water system
Sample management	In-house LIMS product (ALIMS)
Micro testing	Yes, including general micro, pathogens, Bioburden, endotoxin, PET & BSEN disinfectant testing.



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## Lab Facilities (continued)

Item	Comments
Incubators	2 walk in 4 built in 2 free standing
Autoclave	1 dual chamber, independently operated

## Stability

Item	Comments
25°C/60%RH chambers	2 Walk in
30°C/65%RH chambers	1 Walk in
30°C/65%RH chambers	1 Walk in
40°C/75%RH chambers	1 Walk in
5°C/Amb	1 walk in – Continuous monitoring and back up available.
Spare	1 walk in calibrated at all temperatures (back-up)
Freeze/thaw cycling chamber (list conditions)	-20C -80C
Photostability chamber (list controlled humidity)	Yes – Not Humidity Controlled
Monitoring and back-up storage	All rooms are continuously monitored with back-up available
Back-up power	No
LIMS system or equivalent to control storage and pulls	Yes

## Others

Item	Comments
LIMS Software with audit trail	Yes
CDS Software with audit trail	Yes – Thermo Chromeleon
Chromatographic integration – manual or automatic	Assay – Automatic Impurities – Manual
Software access levels?	Yes



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## About Us

The ALS laboratory in Ely is one of the UK's leading providers of pharmaceutical testing services. A comprehensive range of services are provided from the site. The portfolio includes chemical and microbiological testing of API's, finished products for batch release, raw materials, intermediates, purified water, water for injection and waters for steam sterilisers and washer disinfectors (to HTM and CFPP guidelines). Pharmacopoeial or client specific methods are employed. The site is a dedicated pharmaceutical facility and offers a full range of chemical and microbiological testing including storage stability trials. Six storage stability rooms are available operating at the standard ICH conditions. Our understanding of the pharmaceutical market and clients requirement enables us to provide knowledgeable, proactive support and advice. Our staff pride themselves on their technical expertise and are always more than willing to discuss a clients specific testing needs.

## Contact Us

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