Irish Life Sciences

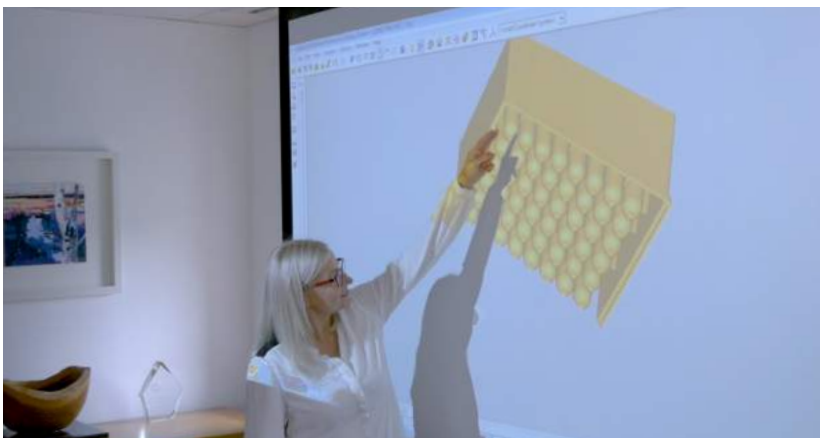
Consumables for Scientists

About Irish Life Sciences

Irish Life Sciences are a leading producer of laboratory consumables based just over one hour from Dublin airport. The company was established in 1968 and has been producing laboratory consumables since 2002 – In that time we have produced over 100 million storage and assay plates, taking great pride in our high levels of customer service and flexibility to meet our customers' needs. We are here to listen to your requirements, welcome your visits and look to develop strong, personalised, working relationships that achieve your objectives.

ILS storage plates are produced in a medical grade polypropylene to provide you with the confidence that your sensitive analytical techniques are not compromised by extractible elements. All materials we use are tested on GC equipment by leading universities. As you would expect our products are RNase and DNase free.

Our facility has production cells with high levels of robotic automation producing laboratory consumables and medical devices. Our ISO Class 8 Cleanrooms are also equipped with Ultrasonic and UV gluing assembly equipment, UDI labelling, Tampo printing, environmental test chambers and plate barcode capabilities.



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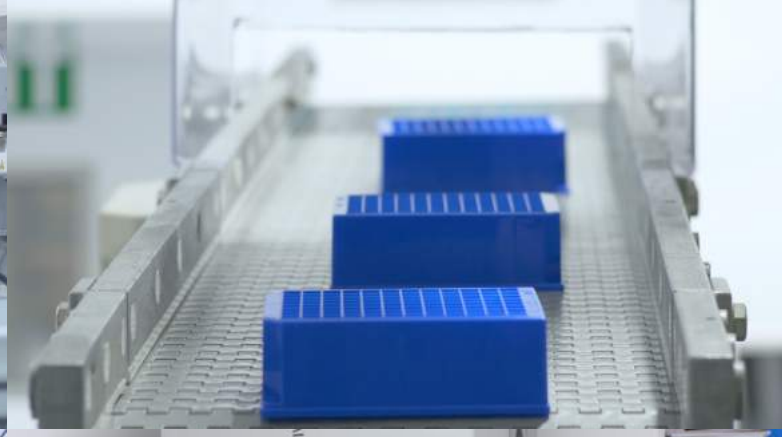
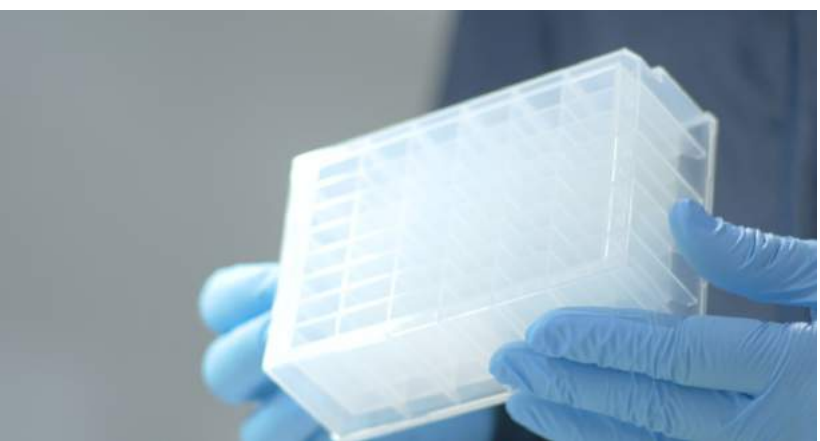
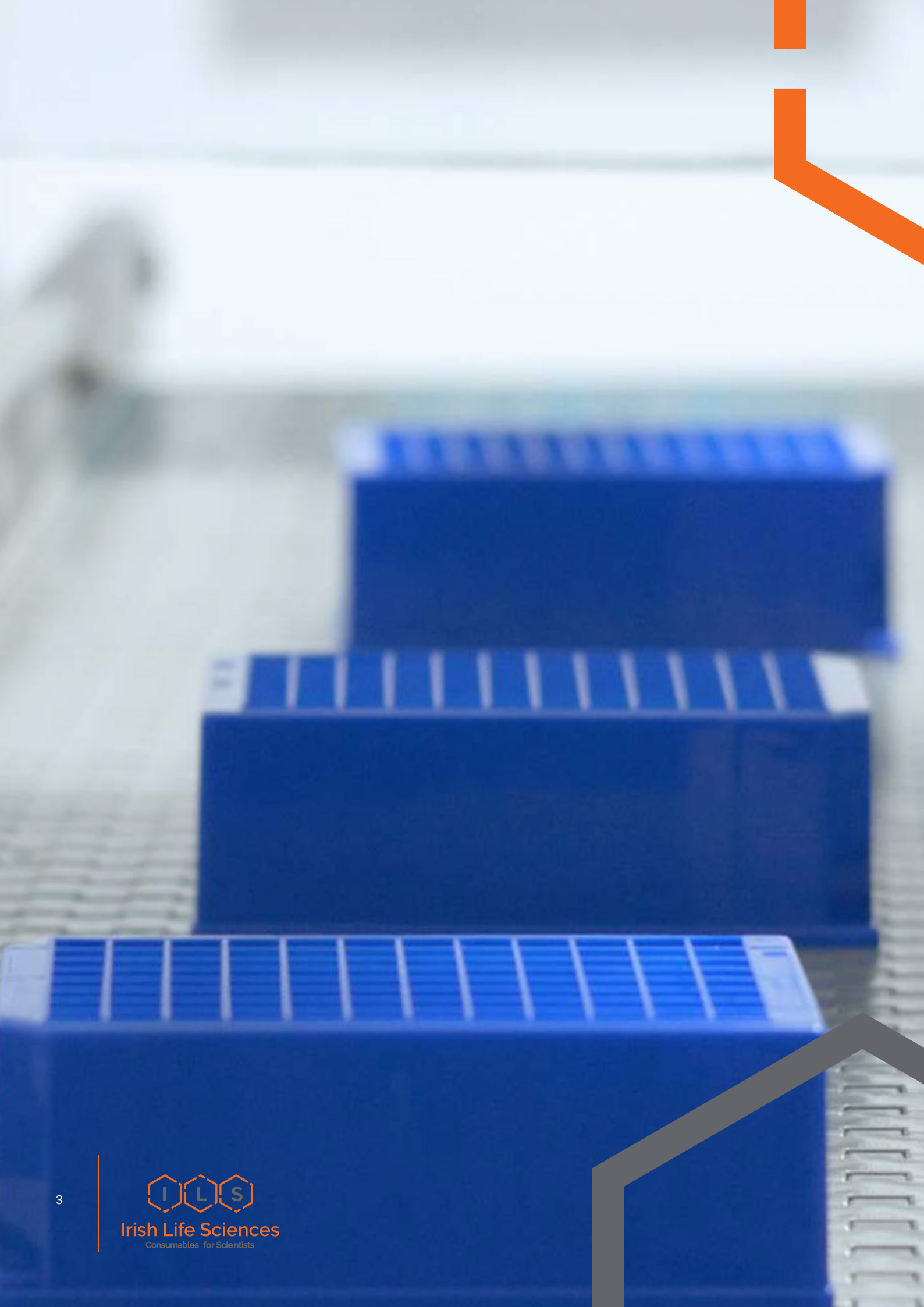


Our extensive knowledge of materials, product and mould design enables us to offer bespoke products in a fast and cost-effective manner.

We operate a transparent quality system and welcome customer participation to ensure we build strong and collaborative working relationships. Our Quality Laboratory is equipped with all the metrology and test equipment required to meet customers' needs including class-leading 3D vision and non-contact measurement systems, tensile testers, leak testers, environmental test chambers.

Quality standards on site are, ISO 13485 and Certificate of Foreign Medical Device Manufacture for the Japanese Market





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ILS Catalogue

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The ILS family of Deepwell plates are available as 24, 48 and the most widely used 96 well format with volumes ranging from 0.36ml to 10.0ml. Both 'V' and 'Round' bottom format are available within the range.

Square Well Plates

1.00ml 96 Square Wells Low Profile round Bottom

1.6ml 96 Square Wells Low Profile Bottom

1.6ml 96 Square Wells Low Profile

2.0ml Square Well Top

2.2ml 96 Well Square Wells Bottom

2.2ml 96 Well Square Wells

- Made from virgin Polypropylene
- Polymer tested on GC-MS to ensure we supply the cleanest plates
- Storage to -80c
- 'V' or Round bottom to aid with maximum liquid extraction or assist with sample mixing
- Working volumes of 1.0ml to 10ml
- Certified RNase\DNase and Pyrogen free
- Produced in certified ISO Class 8 cleanrooms
- Manufactured to ISO13485 Standards
- Easy to use with robotic handling systems
- Improved heat sealing with raised rims
- Non-Sterile or Sterile versions available
- Alphanumeric grid reference
- Coloured versions available

All ILS products are produced from carefully selected polymers including medical grade polymers and tested on GC-MS equipment to ensure leachable or extractable compounds do not affect your compounds or samples.

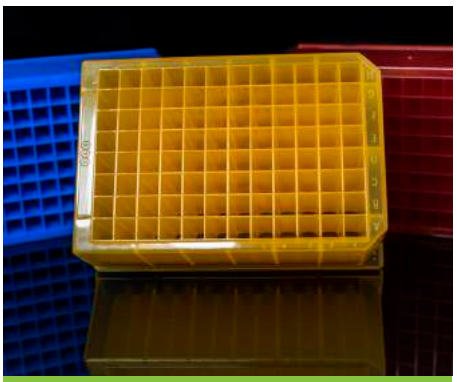
2.3ml Square V Bottom
Bottom

2.3ml Square V Bottom

4.6ml 48 Wells
Bottom

4.6ml 48 Wells

10ml 24 Wells



Coloured square wells

ILS Part Number	Volume	Wells	Well Bottom	Qty per pack	Sterile Part Number	L	W	H	Well depth	Well dia	Silicone cap matt
1S96-306ULP	1.0ml, Low profile	96	U	50	1S96-307ULPS	127.8	85.5	24.4	21.6	8.2	SM420 & SM421
S96-308ULP	1.6ml, Low profile	96	U	50	S96-309ULPS	127.8	85.5	31.6	28.5	8.2	SM420 & SM421
2S96002-V	2.0ml	96	V	50	2S96003-VS	127.8	85.5	44.2	39.9	8.2	
2S96000-SG	2.0ml, Seed Genomics	96	V	50	2S96001-SGS	127.8	85.5	44.2	39.9	8.2	
2.2R96-312U	2.2ml	96	U	50	2.2R96-313US	127.5	85.4	41.6	39.0	8.2	
4S48-316U	4.6ml	48	U	50	4S48-317US	127.8	85.5	41.2	38.0	8.2 x 17.2	
10S24-318V	10.0ml	24	V		10S24-319V	127.8	85.5	44.2	41.0	17.2	

Round Well Plates

0.36ml Round Wells

0.40ml Round Wells R96-302U Bottom

1.0ml 96 Round Wells Low Profile

1.0ml Round Rimless

1.0ml Round Rimmed

2.0ml 96 Round Wells

- Made from Virgin Polypropylene
- Polymer tested on GC-MS to ensure we supply the cleanest plates
- 'V' or Round bottom to aid with maximum liquid extraction or assist with sample mixing
- Storage to -80c
- Working volumes of 0.36ml to 3.5ml
- Certified RNase\DNase and Pyrogen free
- Produced in certified ISO Class 8 cleanrooms
- Manufactured to ISO13485 Standards
- Easy to use with robotic handling systems
- Improved heat sealing with raised rims
- Non-Sterile or Sterile versions available
- Alphanumeric grid reference
- Coloured versions available

ILS Part Number	Volume	Wells	Well Bottom	Qty per pack	Sterile Part Number	L	W	H	Well depth	Well dia	Silicone cap matt
R96-300V	0.36ml	96	V	50	R96-301VS	127.8	85.5	14.8	11.1	7.0	
R96-302U	0.40ml	96	U	50	R96-303US	127.8	85.5	14.8	11.9	7.0	
1R96-304ULP	1.0ml – Low profile	96	U	50	1R96-305ULPS	127.8	85.5	33.0	30.8	7.0	SM422
1RM96004-U	1.0ml	96	U	50	1RM96005-US	127.8	85.5	42.0	39.2	7.0	
1R96006-UNR	1.0ml- no rim	96	U	50	1R96007-UNRS	127.8	85.5	41.5	38.7	7.0	
2R96-310U	2.0ml	96	U	50	2R96-311US	127.8	85.5	43.9	41.9	8.5	SM423
4R48-314V	3.5ml	48	V	50	4R48-315VS	127.8	85.5	43.6	40.4	11.2	

ILS Reagent Reservoirs are made from virgin Polypropylene, with low profile design suitable for use with liquid handling systems.

The reservoirs are available in formats suitable for a single liquid or partitioned 8 and 12 rows for use with several liquids.

8 Channel Reservoir

12 Channel Liquid

24 Well Reservoir With Liquid

96 Well Reservoir

384 Well Reservoir

Res 190F

- Robot compatible
- ANSI/SLAS footprint
- Produced in low extractible virgin polypropylene
- Produced in certified class 8 clean rooms
- Manufactured to ISO13485 Standards
- Low dead volume
- Reservoir breaker and cover available
- Suitable for storage at -80c

ILS Part Number	Description	Channel base shape	Qty per pack	L	W	H	Internal Depth
Res8-350	8 Channel reservoir	V	50	127.76	85.48	31.4	26.85
Res12-351	12 Channel reservoir	V	50	127.76	85.48	31.4	26.85
Res96-352	96 well reservoir	V	50	127.76	85.48	31.4	26.85
Res384-353	384 well reservoir	V	50	127.76	85.48	31.4	26.85
Res384-353	190ml reservoir Flat bottom	F	50	127.76	85.48	31.4	26.85
Res354	Breaker, suitable with Flat, 96 and 384 reservoir		50				

Reagent Bottles

Wide-Mouth Reagent bottles in natural or brown HDPE with Polypropylene caps.

- Produced in High Density Polyethylene (HDPE)
- Liner-less polypropylene caps to ensure leakproof performance and loose material contamination.
- Suitable for storage, transportation and packing of liquid, with uniform thickness of wall, sturdy and durable.
- Wide top design for easy filling and reduction of eddy currents caused by perfusion.
- Chemical resistance to most acid, alkali and alcohol.
- Available in natural translucent for easy viewing of liquid levels or brown to reduce ultraviolet light transmission and protection of photosensitive contents

Volume	Quantity per case	ILS Number Clear - Natural	ILS Part Number Brown	Height mm	Diameter at base mm
8ml	1000	Bot8-380c	Bot8-388b	42.60	24.90
15ml	1000	Bot15-381c	Bot15-389b	56.10	24.90
30ml	400	Bot30-382c	Bot30-390b	59.20	34.00
60ml	650	Bot60-383c	Bot60-391b	81.00	39.00
125ml	350	Bot125-384c	Bot125-392b	95.00	50.00
250ml	200	Bot250-385c	Bot250-393b	128.20	60.50
500ml	100	Bot500-386c	Bot500-394b	162.80	72.20
1000ml	50	Bot1000-387c	Bot1000-395b	193.50	91.00

ILS offer silicone sealing mats in 96 well and strip format for Square well, Round well and PCR plates. Heat and Adhesive seals are also available.

2.0ml Round Well Mat

2.0ml Square Well Mat

Adhesive Sealing Film

96 Round Well Mat for PCR - Close up

96 Round Well Mat for PCR

Heat sealing foil

Description	ILS Number	Quantity per case
Adhesive sealing film	SF400	500
Thermal sealing film	SF401	100
Thermal sealing film, thick	SF402	100
96 Square Well Silicone Sealing Mat	SM420	50
96 Square Well Silicone Sealing Mat, can been punctured	SM421	50
96 Round Well Silicone Sealing Mat, for 1.0mL and U/V bottom, can been punctured	SM422	50
96 Round Well Silicone Sealing Mat, for 2.0mL round plate, can been punctured	SM423	50
96 Round Well Silicone Sealing Mat, for 96 PCR plate	SM424	50
8 Square Well Silicone Strip	SM426	50
8 Round Well Silicone Strip	SM427	50

MicroCentrifuge Tubes

Our range of polypropylene preparation and centrifuge tubes are produced in Class 8 Cleanrooms.

Autoclavable for 20 minutes at 121c, 20psi. With clear graduations and frosted marking area. Certified RNase\DNase and Pyrogen free

1.5ml - With Graduation

1.5ml - With Cap. Non Graduated

2.0ml with Cap

Purification spin column - No Cap

Purification spin column - No Cap

2.0ml with Cap

Purification spin column - With cap

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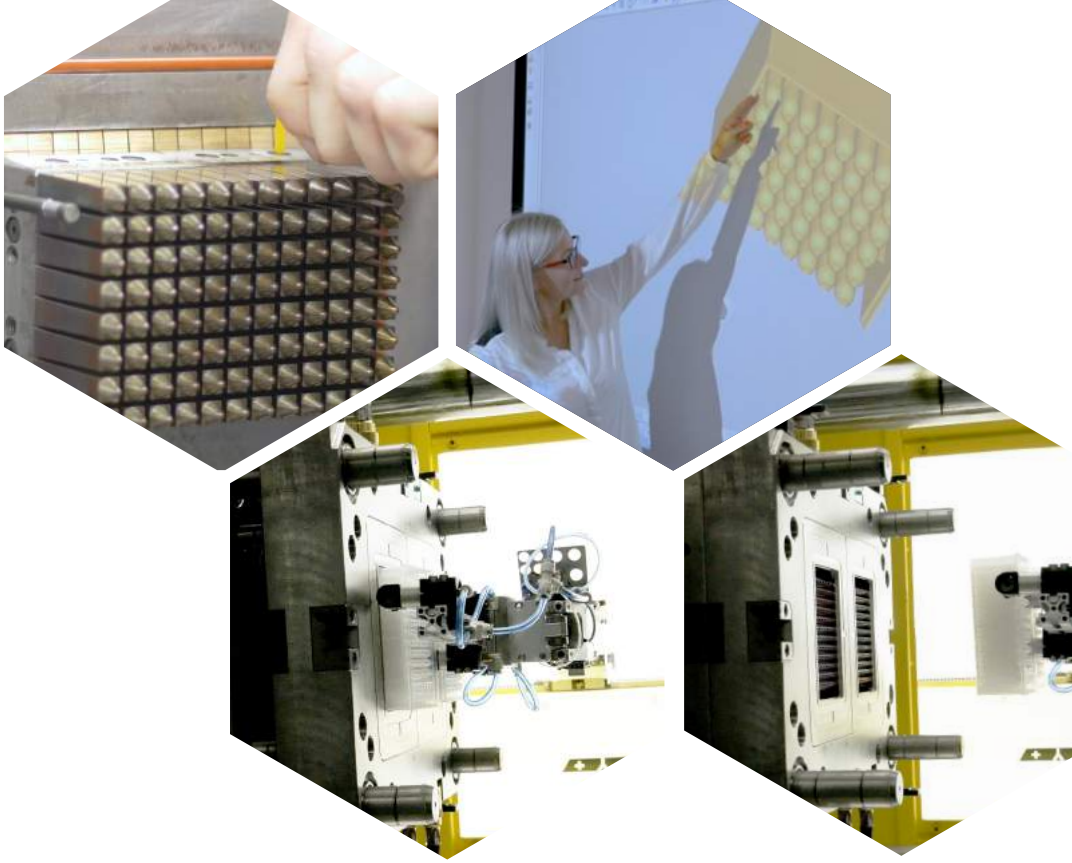


Custom Manufacture and Assembly

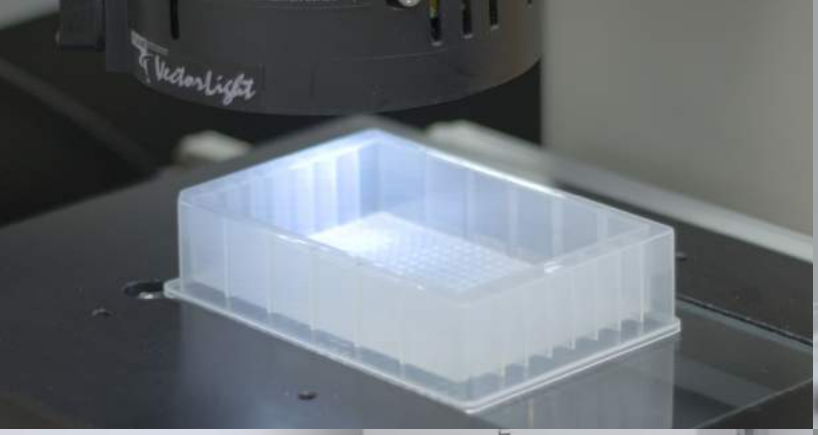
In non-standard applications, ILS can develop new products and moulds to meet a customer's specification. We can also offer bespoke inserts to work in our own moulds where compatible profiles allow for this. So, whether it is own branding on a product, dedicated labelling or unique plate design to support specific research or process technology, we are here to listen and help.

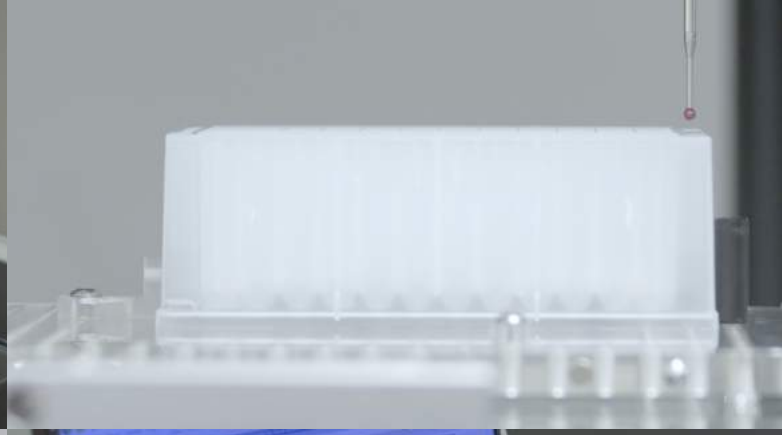
Our manufacturing facility is certified to ISO13485 standards with our ISO Class 8 Cleanrooms also being certified for medical device assembly and ideally suited for the assembly of Assay plates with either glass or clear polymer base plates. The assembly equipment available includes ultrasonic welding, UV gluing plus printing capability.

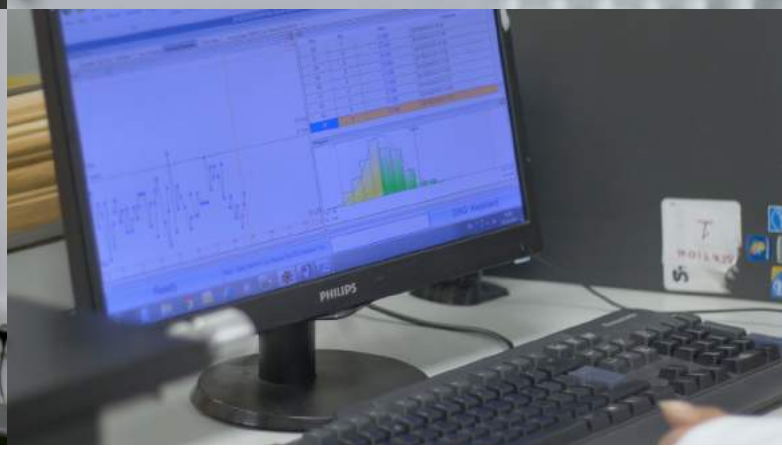
ILS have extensive knowledge and experience of a broad range of polymers and have produced assay plate in GPPS, COA, and COB materials to provide dedicated plates for optical reading equipment.

Standard products from the ILS range are available for customers own labelling, box design and where desired their own customised logo on the plates.

We are here to discuss your requirements and provide a tightly managed, product solution for you.







Quality

ILS manufacturing is carried out in certified ISO Class 8 cleanrooms to ISO13485 Medical device standards. We operate a transparent quality system and welcome customer participation to ensure we build strong and collaborative working relationships.

Our standard operating procedures are reviewed rigorously to ensure our team are focused on the best and most practical ways to assure customer satisfaction and delivery of quality product and service to the high standards we expect.

Our extensive Quality Laboratory is equipped with all metrology and test equipment to meet our commitment to deliver high quality product, meeting ours and our customers' expectations. The equipment available to us includes, Hexagon dual vision/CMM, Starlight vision system, Optical comparator, Tensile tester, Torque tester, leak testers, Digital test indicators and environmental test chambers. Plates and tubes are tested on our centrifuge equipment as part of our quality process. All of our variable metrology data is maintained on a Mitutoyo SPC system that is also available to our Customers.

Our polymers and products are regularly tested on GC-MS equipment to ensure we maintain our class leading levels plate purity. Clean rooms are monitored on on-going basis and certified annually.

This chemical compatibility chart should be used as a general guide. It is recommended that tests are peformed if there is any doubt about material compatibility

	Chemicals	Polystyrene	Polypropylene
Acids	Acetic acid 25%	S	S
	Acetic acid 100%	M	?
	Formic acid 25%	M	S
	Formic acid 100%	M	S
	Hydrochloric acid 25%	S	S
	Hydrochloric acid 100% M S	M	S
	Nitric acid 25%	X	S
	Nitric acid 65%	X	S
	Phosphoric acid 25% M S	M	S
	Sulphuric acid 25%	S	S
	Sulphuric acid 98%	X	S
Alcohols	Amyl alcohol	S	S
	Benzyl alcohol	X	S
	Ethanol (ethyl alcohol) 70%	M	S
	Ethanol (ethyl alcohol) 98%	M	S
	Ethylene glycol	S	S
	Glycerol	S	S
	Isopropanol, n-propanol	S	S
	Methanol 98%	M	S
	Phenol	M	S
	Propylene glycol	S	S
Bases	Ammonium hydroxide 25%	M	S
	Ammonium hydroxide 1N	M	S
	6N Sodium hydroxide	S	S
	Potassium hydroxide	M	S
	Sodium hydroxide 5%	M	S
	Sodium hydroxide 1N	M	S
Esters	Amyl, Propyl, Butyl acetate	X	M
	Benzyl benzoate	?	M
	Ethyl acetate, Methyl acetate	X	M
	2-Ethoxyethyl acetate	X	M
	Methyl cellosolve acetate	X	M
Hydrocarbons	Gasoline, Kerosene	S	M
	Hexane	X	M
	Toluene	X	M
	Xylene	X	M
	Carbon tetrachloride	X	M
	Chloroform	X	M
	Freon	X	M
	Methylene chloride	X	M
	Monochlorobenzene	X	M
	Perchloroethylene	X	M
	1,1,1-Trichlorethane	X	X
	1,1,2-Trichlorethane	X	X
	Trichloroethylene	X	M
Ketones	Acetone	X	M
	Cyclohexanone	X	M
	Methyl ethyl ketone	X	M
Miscellaneous	Acetronile	X	S
	Dimethylsufloxide (DSMO)	M	S
	Dioxane	X	S
	Ethyl ether	X	S
	Formaldehyde 30%	X	S
	Hydrogen peroxide 30%	S	S
	Methyl cellosolve	X	S
	Pyridine	X	M
	Tetrahydrofuran	X	S

S = suitable
M = short term contact
X = unsuitable
? = not tested

Tests were performed at room temperature

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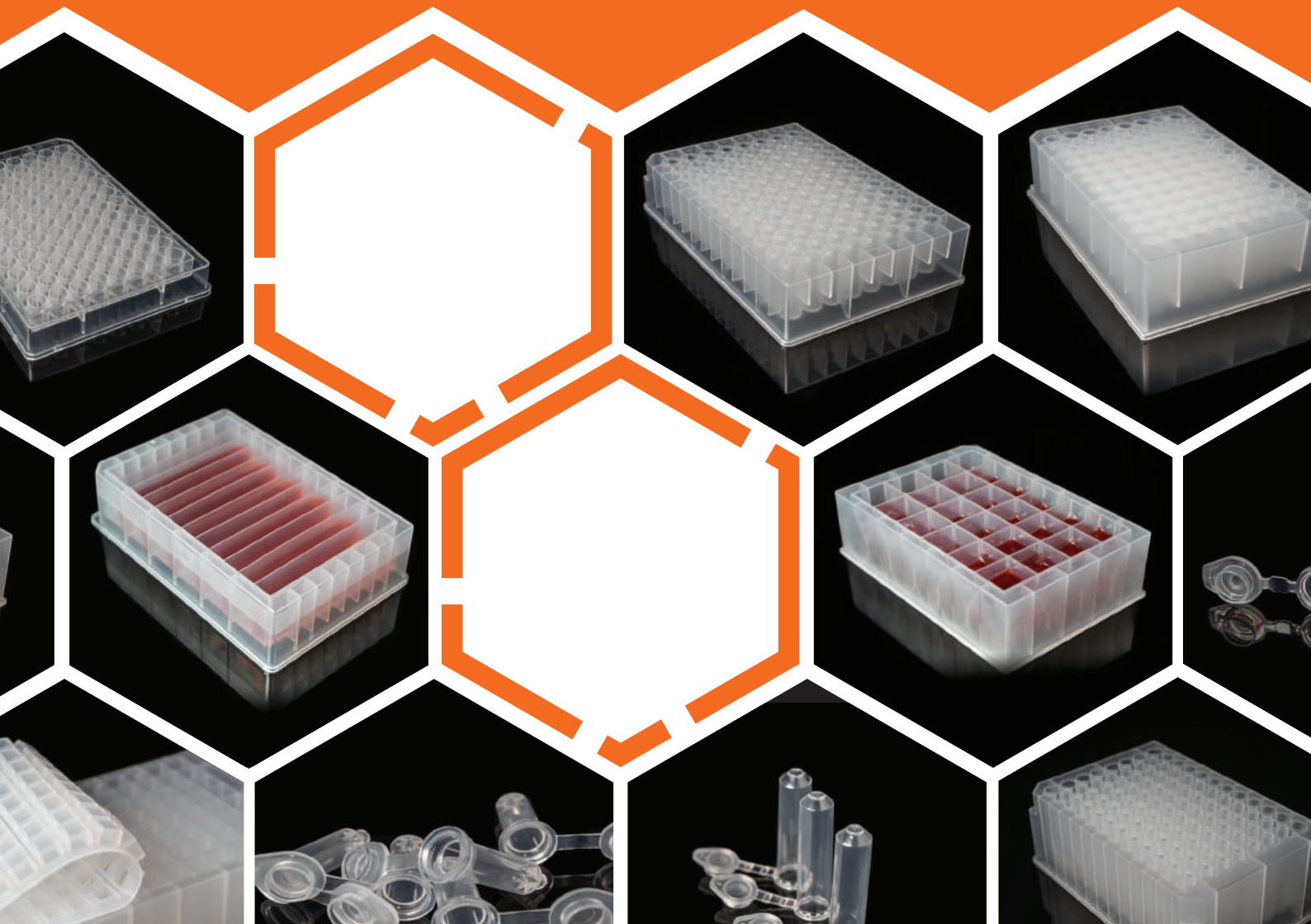
Longford Business and Technology Park
Longford
N39 V880
Ireland

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