Irish Life Sciences

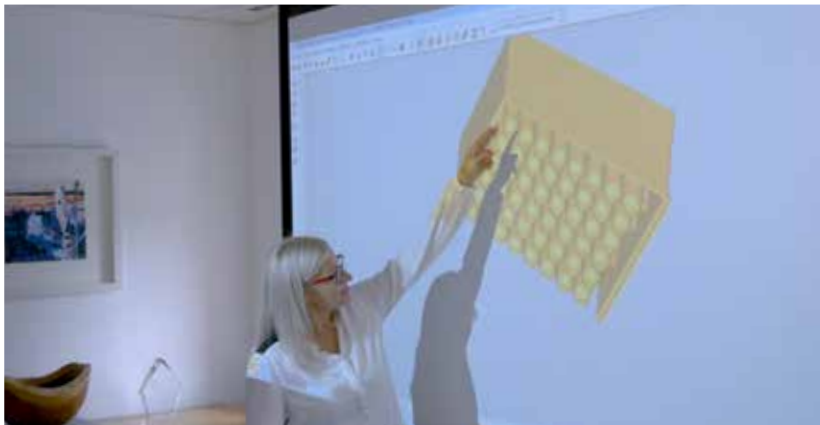
Consumables for Scientists

About Irish Life Sciences

Irish Life Sciences is a leading producer of laboratory consumables based just over one hour from Dublin airport. The company has produced laboratory consumables on a contract basis for other sector suppliers since 2002 – producing over 100 million storage and assay plates in that time. In 2018 we took the decision to launch Irish Life Sciences to offer our own range of products and have since established a distribution relationship in the USA based in Leominster, MA.

We take 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. The products are regularly tested to ensure they are RNase, DNase and Pyrogen free.

Our Class 8 cleanrooms are equipped with the latest Electric Presses and the high levels of robotic automation required for the production of laboratory consumables and medical devices. We also offer assembly capabilities via Ultrasonic welding and UV gluing. Plate barcoding is also available.



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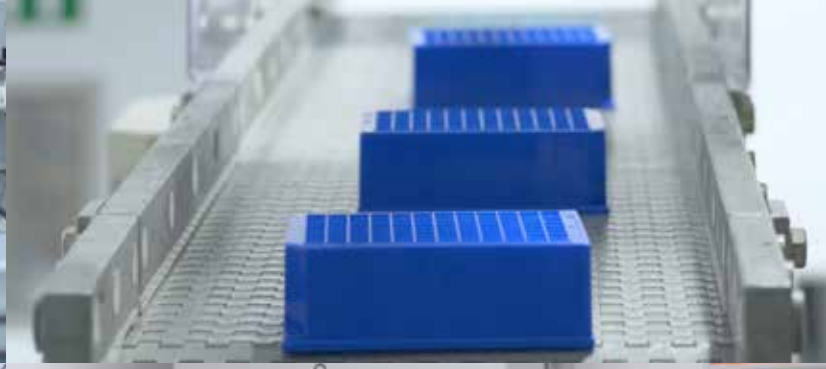
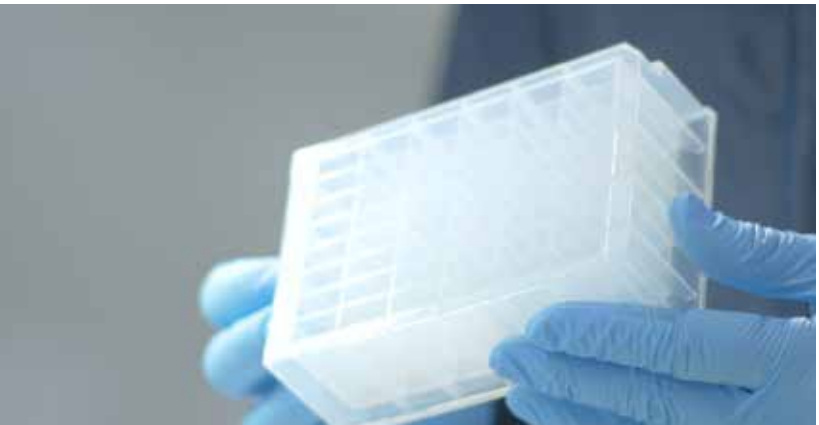
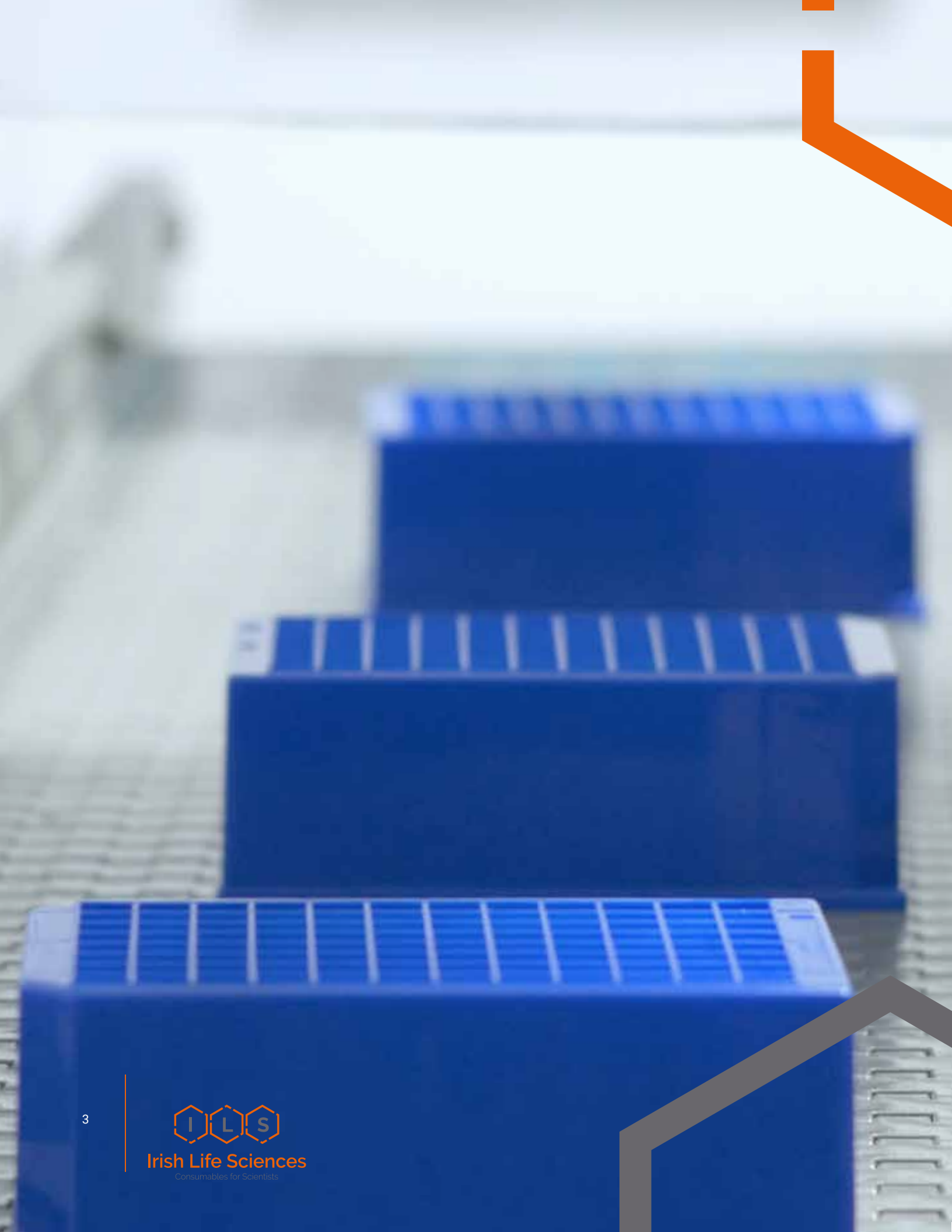


Our extensive knowledge of materials, product & mould design enables us to offer bespoke products in a cost-effective manner.

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 and 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 Catalog

Deepwell Plates - Square Well - Round Well	5-6
Reagent Reservoirs	7
Seals	8
Custom Manufacturing	9
Quality	10

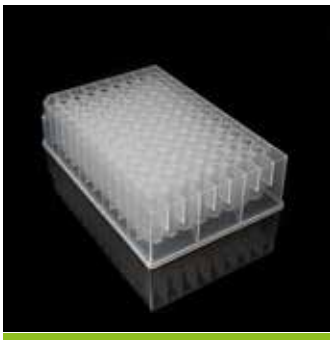
Deepwell Plates

The ILS family of Deepwell Storage and Collection plates are available in 24, 48, 96 and 384 well format with volumes ranging from 0.26mL to 10.0mL. We offer both the square and round plates with 'V' and 'Round' bottom. The 2.0mL round well, 2.2 mL square well 'V" and 'Round' bottom have been validated on Beckman and Hamilton platforms.

0.36ml Round Wells
R96-300V

0.40ml Round Wells
R96-302U

1.00ml 96 Square Wells Low Profile round Bottom
1S96-306ULP



1.0ml 96 Round Wells Low Profile 1R96-304ULP

1.0mL 96 Round Wells Low Profile 'U' Bottom
1R96-304ULP

1.0mL round well low profile.
1R96-322VLP

1.0mL 96 Round Wells Low profile 'V' Bottom
1.2R96-322VLP

1.2mL round well, rimmed.
1.2R96-009U

2.0ml 96 Round Wells
2R96-007U

2.2mL 96 square well.
2.2S96-008V

2.2mL square wells round bottom. - 2.2S96-312U

384 Square wells. V Bottom
S384-323V and S384-012V

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Deepwell Plates

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.

The plates listed below are stocked in the USA. Other products are shipped from our manufacturing facility in Ireland.

- Made from low extractible virgin Polypropylene
- Polymer tested on GC-MS to ensure we supply the cleanest plates
- Storage to -80c
- 'V' bottom for minimum 'Dead Volume' or Round bottom to assist with mixing
- Total volumes of 0.26mL to 10mL
- Round well Rimless version for use with vials
- Raised rim products for improved sealing and to avoid cross contamination
- Certified DNase/RNase and Pyrogen free
- Produced in ISO Class 8 cleanrooms
- Manufactured to ISO13485
- 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

Square Well Plates

ILS Part Number	Volume	Qty Box	Wells	Well Bottom	Sterile Part number	L	W	H	Well depth	Well diameter	Silicone cap matt
1S96-306ULP	1.0mL. 96 wells. Low profile	50	96	U	1S96-306ULPS	127.8	85.5	24.4	21.6	8.2	SM420 & SM421
2.2S96-008V	2.2mL, 96 square well 'V' Bottom	50	96	V	2.2S96-008VS	127.8	85.5	44.2	39.9	8.2	SM420, SM421, SM425
2.2S96-312U	2.2mL, 96 square wells, round bottom	50	96	U	2.2S96-312US	127.5	85.4	41.6	39.0	8.2	SM420, SM421, SM425
S384-323V	240mL 384 Square wells. 'V' Bottom	50	384	V	4.6S48-316US	127.8	85.5	24.9	22.3	3.6	SM427
S384-012V	300mL 384 Square wells, 'V' Bottom	48	384	V	S384-012VS	127.8	85.5	30.2	26.3	3.6	SM427

Round Well Plates

ILS Part Number	Volume	Wells	Well Bottom	Sterile Part number	L	W	H	Well depth	Well diameter	Silicone cap matt
R96-300V	0.36mL 96 round well, 'V' bottom	96	V	R96-300VS	127.8	85.5	14.8	11.1	7.0	SM422
R96-302U	0.40mL 96 round wells, Round bottom	96	U	R96-302US	127.8	85.5	14.8	11.9	7.0	SM422
1R96-304ULP	1.0mL 96 round wells, round bottom. Low profile	96	U	1R96-304ULPS	127.8	85.5	33.0	30.8	7.0	SM422
1R96-322VLP	1.0mL 96 round wells, 'V' Bottom. Low profile	96	V	1R96-322VLPS	128.8	85.8	33.0	30.8	7.0	SM422
1.2R96-009U	1.2mL round well, round bottom	96	U	1.2R96-009US	127.8	85.5	42.0	39.2	7.0	SM422
1.2R96-010UNR	1.2mL round wells. Round bottom. No heat-sealing rim.	96	U	1.2R96-010UNRS	127.8	85.5	42.0	39.2	7.0	SM422
2R96-007U	2.0mL round well, round bottom	96	U	2R96-007US						SM423, SM426

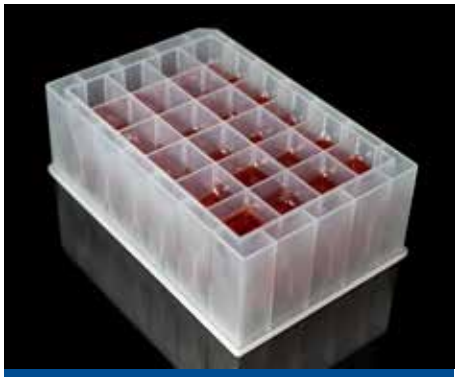
Reagent Reservoirs

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

Flat bottomed reservoir

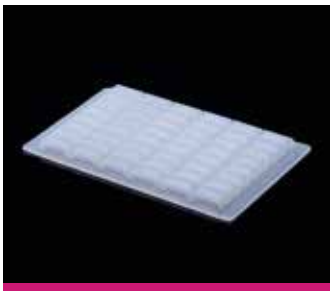
- Robot compatible
- ANSI/SLAS footprint
- Produced in low extractible virgin polypropylene
- Produced in certified class 8 clean rooms
- RNase\DNase free
- Manufactured to ISO13485 Standards
- Low dead volume
- Reservoir breaker and cover available
- Suitable for storage at -80c

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
Res1-355	190ml reservoir Flat bottom	Flat	50	127.76	85.48	31.4	26.85

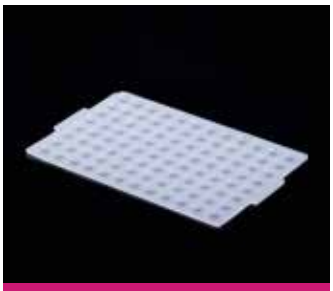
ILS offer a comprehensive range of mats and sealing films that satisfy a multitude of storage plate and PCR sealing requirements.

Silicone Mats

Available to fit our 48, 96 and 384 well plates



48 Square Well Silicone Sealing Mat



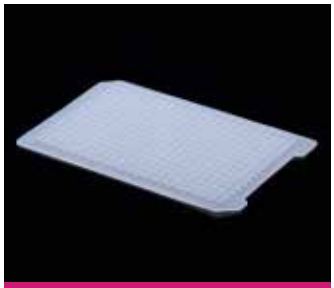
96 Round Well Silicone Sealing Mat for PCR plate

96 Round Well Silicone Sealing Mat. Can be punctured

96 Round Well Silicone Sealing Mat. Thinner surface for puncturing

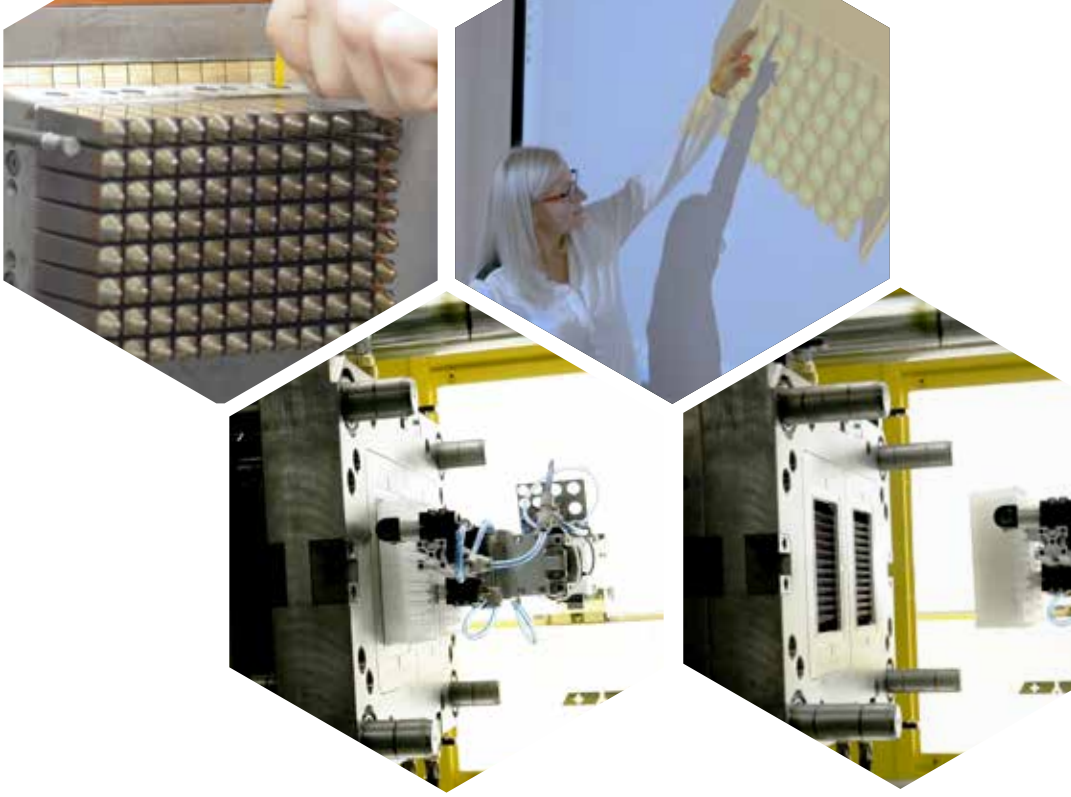
96 Square Well Silicone Sealing Mat. Thinner surface for puncturing

96 Square Well Silicone Sealing Mat. Cross Cut



384 Square Well Silicone Sealing Mat

Description	ILS Number	Application	Qty Per Case	1.0mL	1.6mL	2.0mL	2.2mL	2.3mL	0.36mL	0.40mL	1.0mL	2.0mL
48 Square Well Silicone Sealing Mat	SM429	Friction seal	50									
96 Square Well Silicone Sealing Mat	SM420	Friction seal	50	✓	✓	✓	✓	✓				
96 Square Well Silicone Sealing Mat. Thinner surface for puncturing.	SM421	Friction seal	50	✓	✓	✓	✓	✓				
96 Square Well Silicone Sealing Mat.Cross Cut.	SM425	Friction seal	50	✓	✓	✓	✓	✓				
96 Round Well Silicone Sealing Mat. Can be punctured	SM422	Friction seal	50						✓	✓	✓	
96 Round Well Silicone Sealing Mat. Thinner surface for puncturing.	SM423	Friction seal	50									✓
96 Round Well Silicone Sealing Mat. Cross pre-cut	SM426	Friction seal	50									✓
96 Round Well Silicone Sealing Mat for PCR plate.	SM424	Friction seal	50									
384 Square Well Silicone Sealing Mat	SM427	Friction seal	50									



Custom Manufacture and Assembly

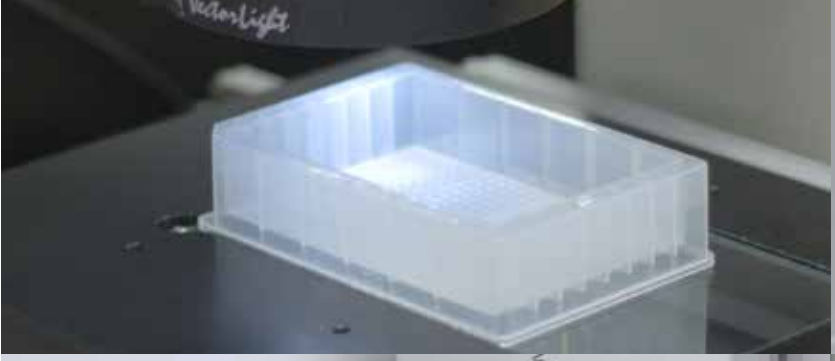
If your research requires a bespoke assay plate or collection plate, we would be happy to advise you on its development as either a new mould tool or where appropriate, insert components to work with our own range of mould tools. Our highly experienced technical team are familiar with most polymers including Polypropylene, Polystyrene, COP and conductive materials. High volume is not required, we are happy to work with customers as they build their application. Our medical device certified cleanrooms house the latest moulding and assembly equipment with the best in automation to ensure our products are DNase/RNase free and competitive.

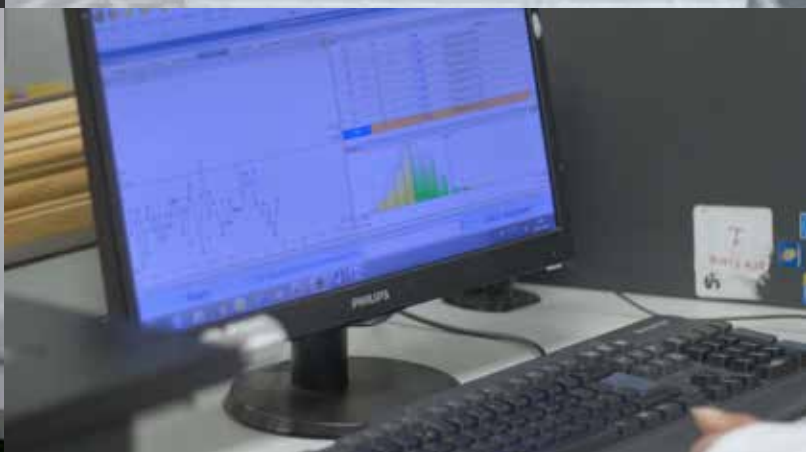
Our manufacturing facility is certified to ISO13485 and for medical device assembly and is ideally suited for the assembly of Assay plates with either glass or clear polymer base plates. The assembly equipment available includes ultrasonic welding, UV gluing plus barcode printing capability.

OEM Labelling

Standard products from the ILS range are available for customers requiring own labelling on our standard boxes or their own box design and where desired customised logos 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. We operate a transparent quality system and welcome customer participation to ensure we build strong and collaborative working relationships.

Our standard operating procedures are rigorously reviewed 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 the metrology and test equipment required 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 system, Starlight vision system, Optical comparator, Tensile tester, Torque tester, leak testers, digital test indicators and environmental test chambers. Plates and are tested on our centrifuge and heat-sealing equipment as part of our quality process.

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

Chemical Compatibility Chart

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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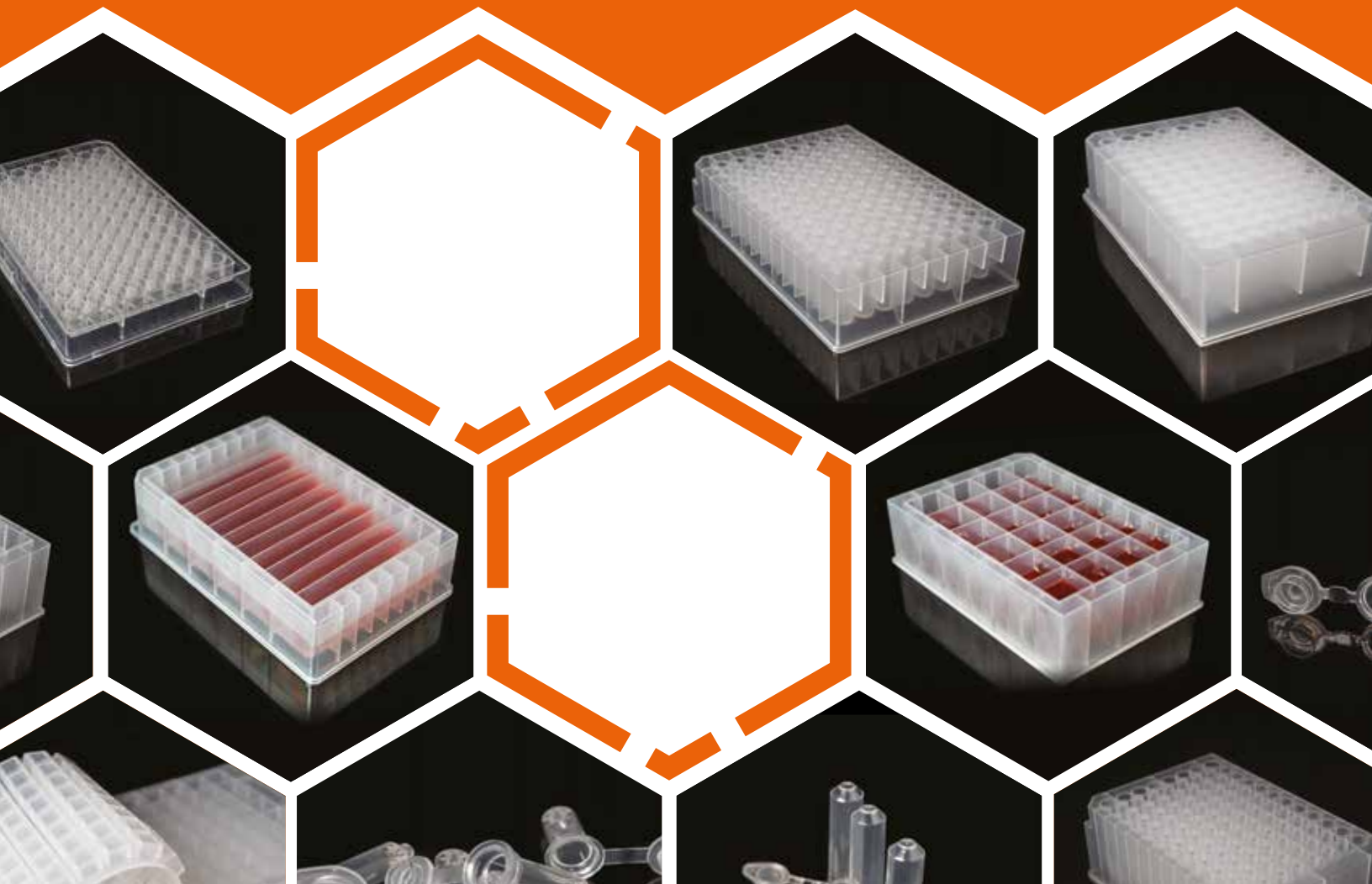
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