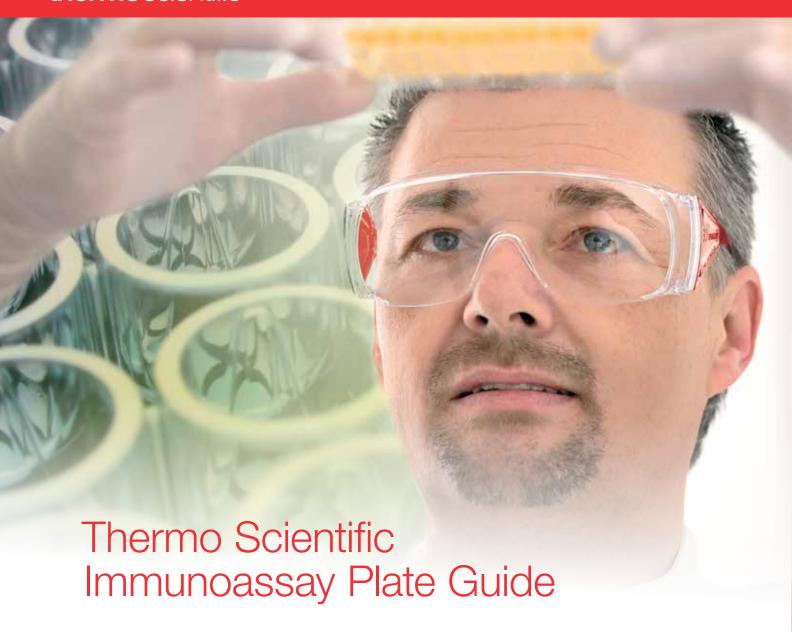
thermoscientific



The right surface for your assay

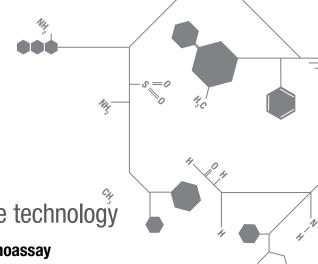
- Passive binding of biomacromolecules
- Covalent coupling of smaller biomolecules
- Capture of affinity-tagged biomolecules







The Right Surface for Your Assay



Advanced immunoassay surface technology

The functionality of Thermo Scientific immunoassay products lies in the surface and design

This guide provides information about passive binding surfaces for biomacromolecules, covalent coupling surfaces for smaller biomolecules and affinitive capture surface for affinity-tagged biomolecules.

Immunoassay techniques are extremely sensitive and contain detection limits in the range of 10 fmol. In order to obtain accurate, reproducible, and positive results, it is essential that you choose the appropriate surface with optimized conditions. By choosing a Thermo Scientific plate, you benefit from more than 30 years of industry leading experience in immunoassay plate technology, and a broad range of surfaces and formats to optimize your assay.

When selecting a plate

A number of points need to be taken into consideration when selecting your assay plate: the type of biomolecule, surface and plate format (strip or solid), color (clear, black or white), well volume, and instrument compatibility (pinchbar or Regular flange).

To find the best immunoassay plate for your application, please visit our online plate selection tool.

www.thermofisher.com/plateguide

Well configuration



Compatible with monochromatic reading
• F-well (Flat bottom)



For easier washing

C-well (Modified F-bottom)

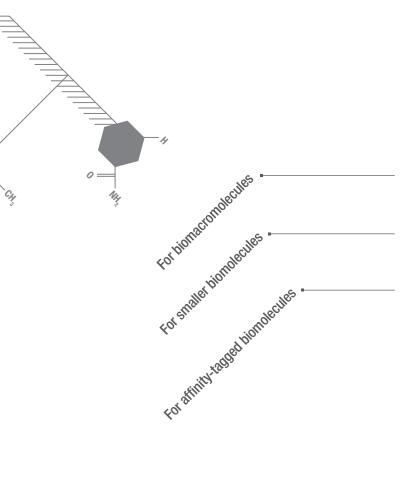


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For protocols and technical notes, please visit thermofisher.com/oemdiagnostics



For optimal washing (use dual beam reader)





For increased surface/volume ratio and increased sensitivity

StarWell bottom

Passive Binding Surfaces

Passive surfaces have a broad range of applications as they can bind to a variety of biomolecules. Passive binding is primarily suited for the immobilization of medium to large sized molecules, such as antibodies, which are capable of establishing several contact points. The exact molecular interaction sites are dependent on the specific matching of the biomolecule's structure with the polymer surface structure. A large variety of biomolecules can be immobilized on passive surfaces with good residual activity.

The family of Thermo Scientific passive surfaces vary in their degree of hydrophilicity and are organized into four different sub-groups: hydrophobic, slightly hydrophilic, hydrophilic, and very hydrophilic. A hydrophobic surface functions predominately via hydrophobic binding. As the surface is made more hydrophilic by the incorporation of oxygen containing functional groups, electrostatic interactions can play a greater role in binding, thus influencing which types of biomolecules will bind strongly to the surface (see Table below).

This table provides general guidelines for the selection of passive surfaces for the immobilization of particular biomolecules

Biomolecule

The likelihood of effectively immobilizing a biomolecule on a particular surface is indicated in the table below.

Passive category	Surface	Immunoglycoproteins	Proteins (water soluble)	Proteins (less water soluble)	Glycans
_	PolySorp	Fair	Fair	Very good	Low
Hydrophobic	Immulon 1 B	Fair	Fair	Very good	Low
These surfaces are typically used for the adsorption of hydrophobic	Universal Binding (UB)	Fair	Fair	Very good	Low
molecules such as lipid rich biomolecules.	Microlite 1+	Fair	Fair	Very good	Low
	Microfluor 1	Fair	Fair	Very good	Low
Slightly hydrophilic	Immulon 2 HB	Good	Good	Good	Fair
The slight hydrophilicity of these plates enhances their ability to bind a diverse range of biomolecules, including glycoproteins,	Microlite 2+	Good	Good	Good	Fair
serum containing samples and amphoteric molecules such as lipopolysaccarides. With these plates non-specific adsorption of	Microfluor 2	Good	Good	Good	Fair
serum containing samples are reduced and this will improve the signal to noise (S/N) ratio and consequently, sensitivity levels.	MediSorp	Good	Good	Good	Fair
Hydrophilic	MaxiSorp*	Very good	Very good	Fair	Good
Optimized to bind high amounts of IgG (polyclonal), these plates are ideal for antibody sandwich assays (e.g., ELISAs). In addition, they	Immulon 4 HBX	Very good	Very good	Fair	Good
show increased binding of many other proteins and biomolecules that possess hydrophilic/hydrophobic characteristics.	Enhanced Binding (EB)	Very good	Very good	Fair	Good
Very hydrophilic The most hydrophilic in our portfolio, many hydrophilic proteins will bind with a high affinity to these plates. Binding does, however, tend to be more pH sensitive.	MultiSorp	Low	Good	Fair	Good



Passive Binding Surfaces

Hydrophobic

These surfaces are typically used for the adsorption of hydrophobic molecules such as lipid rich biomolecules.

Slightly hydrophilic

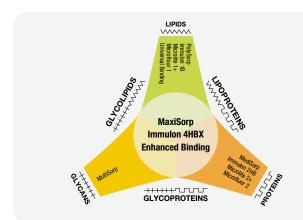
The slight hydrophilicity of these plates enhances their ability to bind a diverse range of biomolecules, including glycoproteins, serum containing samples and amphoteric molecules such as lipopolysaccarides. With these plates, non-specific adsorption of serum containing samples are reduced and this will improve the signal to noise (S/N) ratio and consequently, sensitivity levels.

Hydrophilic

Optimized to bind high amounts of IgG (polyclonal), these plates are ideal for antibody sandwich assays (e.g., ELISAs). In addition, they show increased binding of many other proteins and biomolecules that possess hydrophilic/hydrophobic characteristics.

Very hydrophilic

The most hydrophilic in our portfolio, many hydrophilic proteins will bind with a high affinity to these plates. Binding does, however, tend to be more pH sensitive.



Surfaces for passive binding

Schematic to the left is a representation of the types of biomacromolecules which can be bound to the available modified surfaces. E.g. if a lipid is to be bound the hydrophobic surface PolySorp is most suitable. Based on the physiochemical characteristics of the biomolecule to be immobilized, a surface can be chosen which is appropriate for robust binding. As is indicated in the diagram, MaxiSorp has the widest breadth applications as it is capable of binding the greatest range of molecules.

Passive binding surfaces

Name	Base polymer	Hydrophilicity	Binding preference
○ PolySorp △ Immulon 1 B* △ Microlite 1+* △ Microfluor 1* △ Universal Binding (UB)	Polystyrene	Low	Biomolecules that have hydrophobic domains, e.g. lipids, lipoproteins, large proteins
O MediSorp* △ Immulon 2 HB* △ Microlite 2+* △ Microfluor 2*	Polystyrene	Fair	Biomolecules with hydrophilic/hydrophobic properties, e.g. medium to large proteins such as albumin. Amphiphilic biomolecules such as LPS
O MaxiSorp* △ Immulon 4 HBX* △ Enhanced Binding (EB)	Polystyrene *	Good	Biomolecules with hydrophilic/hydrophobic properties. Designed for high binding of IgG. Also high binding for many other proteins and biomolecules that have hydrophilic/hydrophobic character
MultiSorp	Polystyrene	Very good	Hydrophilic biomolecules, e.g. glycoproteins
○ TopYield	Polycarbonate	Fair	Proteins with mixed hydrophobic/hydrophilic regions. e.g. immunoglobulins



Covalent Surfaces

Covalent coupling is based on the formation of a single covalent bond between the polymer surface and the biomolecule. Small biomolecules can be immobilized using this technique, as can medium and large molecules that possess the appropriate functional group(s). Since coupling occurs via specific functional groups, biomolecular orientation can also be manipulated by the user.

Thermo Scientific Nunc CovaLink

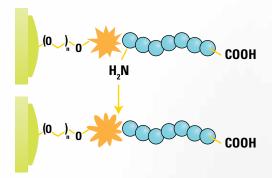
The CovaLink™ surface is designed to facilitate the coupling of molecules bearing a free carboxyl or phosphate group. Therefore, peptides, haptens and DNA can be coupled. The surface uses a spacer arm to increase accessibly, thereby helping enhance overall surface reactivity.

Schematic chemical and physical configuration of the CovaLink NH surface. The NH groups are spaced from the polystyrene surface by 2 nm long (approximately), chemically defined spacer arms, covalently anchored to the surface using a proprietary method.

Binds biomolecules that have specific functional groups

Thermo Scientific Nunc Immobilizer Amino

The Immobilizer Amino surface forms stable covalent bonds between its electrophilic groups and the biomolecule's free amino acids or sulfhydryl groups. Using its unique spacer arm chemistry, the surface provides extremely low nonspecific binding to help improve assay sensitivity. With no need for an ancillary coupling agent, this surface can simplify your assay development by eliminating the need for a time-consuming blocking step.



Covalent coupling of a peptide to the Immobilizer Amino plate.

During a short incubation step, the peptide will bind to the electrophilic group.

The Immobilizer Amino surface is ideal

- If your biomolecule does not bind well to a passive surface and it
 possesses one or more free primary amino or sulfhydryl groups (peptides,
 oligonucleotides, proteins, proteoglycans)
- To obtain a highly sensitive assay with excellent reproducibility and low background
- To minimize the use of a coating reagent
- To reduce the number of steps required to prepare plates
- · To avoid unwanted reactivity associated with a blocking reagent

Covalent coupling surfaces

Name	Base polymer	Structure	Binding preference
Olmmobilizer Amino*	Polystyrene	Reactive electrophilic group tethered on a spacer arm	Covalent coupling of biomolecules with free $\mathrm{NH_2}$ and/or SH groups e.g. proteins, peptides, aminated oligos
CovaLink	Polystyrene	Secondary amine on a 2 nm spacer arm	Covalent coupling of biomolecules with -COOH or -PO ₄ -groups EDC used for activation of -COOH, PO ₄ -groups
○ NucleoLink	Proprietary Polymer	Proprietary surface chemistry provides functional groups for covalent binding	Covalent binding of 5' phosphorylated or 5' aminated oligonucleotides and nucleic acids using EDC



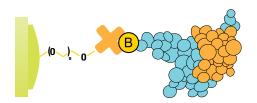
Name	Key applications	Features
○ Immobilizer Amino*	Coated antigen ELISA, FIA, LIA NA Hybridization assays Antibody sandwich ELISA, FIA, LIA	 Immobilize proteins and peptides that do not bind to passive surfaces Stable covalent bond formation with free NH₂ or SH groups via spacer arm technology NO BLOCKING REQUIRED Simple one step protocol. Add coating solution and incubate Can frequently reduce the amount of biomolecule needed for coating vs passive plate High signal-to-noise ratio
CovaLink	Coated antigen ELISA, LIA, FIA	- Can link biomolecules via the COOH group (enables the detection of peptides that bind to an antibody via the NH ₂ end) - Spacer arm technology for optimal orientation
○ NucleoLink	Solid Phase PCR, DIAPOPS (Detection of Immobilized Amplified Products), PCR ELISA, NA Hybridization assays	Heat-stable wells (120°C) with excellent thermal transfer properties Simplifies PCR assisted hybridization assays; perform the PCR amplification and detection steps in the same well. No need for special real-time PCR equipment Read in spectrophotometers

Affinity Capture Surfaces

Affinity capture is based on the specific binding of a tagged biomolecule to its receptor. The plate surface is therefore developed with one of the binding pair (the receptor) immobilized on its surface, while the tag is linked to a biomolecule either by chemical coupling or genetic engineering. The tagged biomolecule can then be captured on the plate surface with a high degree of specificity.

Thermo Scientific Nunc Immobilizer Streptavidin

The streptavidin protein molecules are covalently bound to the surface via a spacer arm to reduce leaching and enhance precision. The surface is also modified to minimize non-specific binding. As a result, a high S/N ratio is produced, for increased sensitivity. A biotin binding capacity of 20 pmol per well produces excellent analytical results.



Coupling of a biotinylated protein to the covalently bound streptadivin. After a pre-wash, simply add the biotinylated target molecule in an appropriate buffer. In a short incubation step, the biotinylated molecule will bind to the streptavidin molecule.

All covalent and affinity capture surface plates are room temperature stable and are ready to use.

Affinity capture surfaces

Name	Base polymer	Structure	Binding preference
Olmmobilizer Streptavidin*	Polystyrene	Streptavidin covalently coupled to polystyrene surface via a spacer arm	Biotinylated biomolecules



^{*} Release tested for binding reproducibility. See approval criteria chart on page 12.



Name	Key applications	Features
Olmmobilizer Streptavidin*	Immunoassays, protein-protein binding assays, PCR ELISA, NA Hybridization assays	 NO BLOCKING REQUIRED due to unique surface chemistry High sensitivity; very high signal-to-noise ratio Stable at room temperature Biotin capacity (20 pMol/well provides large dynamic range for analytical assays)

Abbreviations:

FIA - Fluorescent Immunoassay LIA - Luminescent Immunoassay

NA - Nucleic Acid

ELISA - Enzyme Linked Immuno Sorbent Assay PCR - Polymerase Chain Reaction

LPS - Lipopolysaccharide

EDC - 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide CV - Coefficient of variation



Plate CV % of less than 8.5% for IgG binding

Plate CV % of less than 5.5% for IgG binding

Plate CV % of less than 5% for IgG binding

Immulon 2HB

Immulon 4HBX

Microlite 1+, Microlite 2+ Microfluor 1, Microfluor 2

Enhanced Binding (EB)

Immunoassay Products



Solid plates



Framed modules/strips



Loose modules/strips



Tubes



Immuno sticks



Accessories



Lids



Strip caps



Frames



Reservoirs



Sealing tapes



Push-out tool

For additional information on immunoassay products and accessories, please visit: **thermofisher.com/diagnosticplates**

Our Commitment to the Diagnostic Industry

- Lot to lot consistency
- Batch reservation
- Design
- Functional surfaces

- Customization
- R & D support
- Flexibility
- Innovative solutions



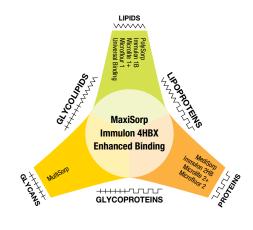


If you want to know more about our services, please do not hesitate to contact us or visit our website

For more information, please visit: **thermofisher.com/elisaplates**

Surfaces for passive binding

Schematic representation of the types of biomacromolecules, which to be bound, the available modified surfaces. E.g. if a lipid is to be bound, the hydrophobic surface PolySorp plates is most suitable. Based on the physiochemical characteristics of the biomolecule to be immobilized, a surface can be chosen, which is appropriate for robust binding. As is indicated in the diagram, MaxiSorp has the widest breadth applications as it is capable of binding the greatest range of molecules.



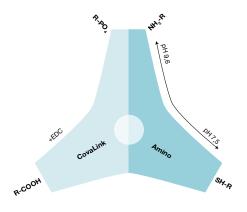




Covalent coupling surfaces

The diagram shows the available surface modifications for directed binding of target biomolecules. In the case of Thermo Scientific Nunc Immobilizer Amino and CovaLink plates, a strong covalent bond is formed with the biomolecule being immobilized at the surface. The biomolecule must possess the correct functional group for covalent coupling. The relevant functional groups on the biomolecule are shown in the diagram.





Product Overview

Passive binding surface products

		Surface	Cat. no.	Configuration	Туре	Frame	Color	Total volume, µL/well	Units per pack/case
		PolySorp	456529	F96	High flange	Solid	Clear	400	10/180
		PolySorp	475094	F96	Pinchbar	Solid	Clear	400	5/60
		PolySorp	475434	U96	High flange	Solid	Clear	300	5/60
		PolySorp	436111	F96	High flange	Solid	White	400	10/80
		PolySorp	437112	F96	High flange	Solid	Black	400	10/80
		PolySorp	446140	C96	High flange	Solid	Clear	350	5/60
		Universal Binding	9502227	F96	Regular flange	Solid	Clear	450	25/50
	Solid 96	Universal Binding	9502887	F96	Regular flange	Solid	White	450	25/50
	well plates	Universal Binding	9502867	F96	Regular flange	Solid	Black	450	25/50
		Immulon 1 B	3355	F96	High flange	Solid	Clear	330	10/50
		Immulon 1 B	3555	U96	High flange	Solid	Clear	280	10/50
		Microfluor 1	7605	F96	Regular flange	Solid	Black	330	10/50
		Microfluor 1	7705	F96	Regular flange	Solid	White	330	10/50
		Microlite 1+	7571	F96	Regular flange	Solid	White	330	10/50
		Non treated (sterile)	2305-11*	U96	Regular flange	Solid	Clear	280	10/50
		Non treated	2205	U96	Regular flange	Solid	Clear	280	10/50
ပ		PolySorp	467679	F16	Non breakable	Framed	Clear	400	10/60
o		PolySorp	473717	C12	Non breakable	Framed	Clear	350	10/60
do.		PolySorp	469078	F8	Non breakable	Framed	Clear	400	10/60
Hydrophobic		PolySorp	444865	C8	Non breakable	Framed	Clear	350	10/60
Ŧ									
	Strip/module plates 96 wells	PolySorp	475086 446442	U8 C8	Non breakable	Framed Framed	Clear	300	10/60
		PolySorp			Breakable		Clear	350	10/60
		PolySorp PolySorp	473539 463200	C8	Breakable Breakable	Framed Framed	Clear White	350 350	10/60
			446473	C8		Framed		350	10/60
		PolySorp	475523	F16	Breakable Non-breakable	Framed	Black	400	10/60
		PolySorp PolySorp		C8	Non breakable				
			437702 469922	F16	Non breakable Non breakable	Framed Unframed	White	350 400	10/60 80/320
		PolySorp Polysorp	469922	F8	Non breakable	Unframed	Clear	400	160/640
		Immulon 1 B	6301	F12	Breakable	Unframed	Clear	380	320/320
		Immulon 1 B	6310	F12	Breakable	Framed	Clear	350	100/100
		Microlite 1+	7566	F12	Breakable	Unframed	White	380	320/320
		Universal Binding	95029390	F8	Breakable	Framed	Clear	400	25/50
		Universal Binding	95029390	F8	Breakable	Framed	Clear	400	25/50
		Universal Binding	95029400**	F8	Breakable	Framed	Clear	400	250
		TopYield	248909	V8	Breakable	Unframed	Clear	330	120/1440
		MediSorp	467320	F96	High flange	Solid	Clear	400	5/60
		Microlite 2+	7417-12*	F96	Regular flange	Solid	White	330	10/50
	Solid 96	Immulon 2 HB	3455	F96	Regular flange	Solid	Clear	330	10/50
	well plates	Immulon 2 HB	3655	U96	Regular flange	Solid	Clear	280	10/50
ij		Microflour 2	7805	F96	Regular flange	Solid	Black	330	10/50
o de		Microflour 2	7905	F96	Regular flange	Solid	White	330	10/50
Slightly hydrophilic		Microlite 2+	7572	F96	Regular flange	Solid	White	330	10/50
tly l		MediSorp	467120	F8	Non breakable	Framed	Clear	400	10/60
igh		MediSorp	446470	C8	Breakable	Framed	Clear	350	10/60
S	Strip/module	MediSorp	467595	F16	Non breakable	Framed	Clear	400	10/60
	plates 96 wells	Immulon 2 HB	6309	F12	Breakable	Framed	Clear	350	100/100
		Immulon 2 HB	6302	F12	Breakable	Unframed	Clear	380	320/320
		Microlite 2+	7567	F12	Breakable	Unframed	White	380	320/320
		Microlite 2	<u>7410*</u>	F12	Breakable	Unframed	White	380	320/320

^{*} Available in Americas only

^{**} Available in EMEA only

Product Overview

Passive binding surface products

		Surface	Cat. no.	Configuration	Туре	Frame	Color	Total volume, µL/well	Units per pack/case
		MaxiSorp	430341	C96	Pinchbar	Solid	Clear	350	5/60
		MaxiSorp	446612	C96	Pinchbar	Solid	Clear	350	5/60
		MaxiSorp	437796	C96	Pinchbar	Solid	White	350	5/60
		MaxiSorp	456537	F96	High flange	Solid	Clear	400	10/180
		MaxiSorp Barcode	460984	F96	High flange	Solid	Clear	400	10/180
	Solid 96 well plates	MaxiSorp	439454	F96	Pinchbar	Solid	Clear	400	5/60
	John 30 Well plates	MaxiSorp	442404	F96	Pinchbar	Solid	Clear	400	5/60
		MaxiSorp	449824	U96	High flange	Solid	Clear	300	5/60
		MaxiSorp	437111	F96	Pinchbar	Solid	Black	400	10/80
		MaxiSorp	436110	F96	Pinchbar	Solid	White	400	10/80
		Immulon 4 HBX	3855	F96	Regular flange	Solid	Clear	330	10/50
		Enhanced Binding	95029330	F96	Regular flange	Solid	Clear	450	25/50
		MaxiSorp	469914	F16	Non breakable	Unframed	Clear	400	80/320
		MaxiSorp	469264	U16	Non breakable	Unframed	Clear	300	80/320
		MaxiSorp	469949	F8	Non breakable	Unframed	Clear	400	160/640
		MaxiSorp	467466	F16	Non breakable	Framed	Clear	400	10/60
		MaxiSorp	473709	C12	Non breakable	Framed	Clear	350	10/60
		MaxiSorp	468667	F8	Non breakable	Framed	Clear	400	10/60
		MaxiSorp	434797	F8	Non breakable	Framed	Clear	400	20/120
2		MaxiSorp	445101	C8	Non breakable	Framed	Clear	350	10/60
5 .		MaxiSorp	445105*	C8	Non breakable	Framed	Clear	350	10/60
nyaropullic		MaxiSorp	475078	U8	Non breakable	Framed	Clear	300	10/60
		MaxiSorp	441653	C8 Star	Non breakable	Framed	Clear	380	10/60
		MaxiSorp	446469	C8	Breakable	Framed	Clear	350	10/60
	Strip/module	MaxiSorp	446639**	U8	Breakable	Framed	Clear	320	10/60
	plates 96 wells	MaxiSorp	448526**	C8 Star	Breakable	Framed	Clear	330	10/60
		MaxiSorp	473768	C8	Breakable	Framed	Clear	350	10/60
		MaxiSorp	437915	C12	Non breakable	Framed	Clear	350	10/60
		MaxiSorp	475515	F16	Non breakable	Framed	Black	400	10/60
		MaxiSorp	437591	C8	Non breakable	Framed	White	350	10/60
		MaxiSorp	463201	C8	Breakable	Framed	White	350	10/60
		MaxiSorp	446471	C8	Breakable	Framed	Black	350	10/60
		Immulon 4 HBX	6404	F12	Breakable	Unframed	Clear	380	320/320
		Immulon 4 HBX	6405	F12	Breakable	Framed	Clear	350	100/100
		Enhanced Binding	95029100	F8	Non breakable	Framed	Clear	330	5/50
		Enhanced Binding	95029140	F12	Non breakable	Framed	Clear	400	5/50
		Enhanced Binding	95029180	F8	Breakable	Framed	Clear	400	25/50
		NucleoLink	248259	V8	Breakable	Unframed	Clear	330	120/1440
		Maxisorp	460518	F384	Pinchbar	Solid	Black	120	10/30
		Maxisorp	464718	F384	Pinchbar	Solid	Clear	120	10/30
	384 well plates	Immunion 4HBX	8755	RS384	Regular flange	Solid	Clear	120	10/50
		Maxisorp	460372	F384	Pinchbar	Solid	White	120	10/30
<u>≘</u>	Solid 96 well plates	MultiSorp	467340	F96	High flange	Solid	Clear	400	5/60
hydrophilic	Strip/module	MultiSorp	<u>467140</u>	F8	Non breakable	Framed	Clear	400	10/60
Ę	plates 96 wells	MultiSorp	446490	C8	Breakable	Framed	Clear	350	10/60

^{*} Available in Americas only

^{**} Available in EMEA only

Product Overview

Covalent surface products

		Surface	Cat. no.	Configuration	Туре	Frame	Color	Total volume, µL/well	Units per pack/case
	Solid 96 well plates – clear, black and white	Immobilizer Amino	436006	F96	Pinchbar	Solid	Clear	400	5/30
		Immobilizer Amino	436007	F96	Pinchbar	Solid	White	400	5/30
valeni		Immobilizer Amino	436008	F96	Pinchbar	Solid	Black	400	5/30
Cova	Strip/module plates 96 wells clear,	Immoblizer Amino	436013	F8	Non breakable	Framed	Clear	400	5/30
		Immobilizer Amino	436023	C8	Breakable	Framed	Clear	350	5/30
	black and white	Immobilizer CovaLink	478042	F8	Non breakable	Framed	Clear	400	5/30

Affinity capture surface products

		Surface	Cat. no.	Configuration	Туре	Frame	Color	Total volume, µL/well	Units per pack/case
	Solid 96 well plates – clear, black and white	Immobilizer Streptavidin	436014	F96	Pinchbar	Solid	Clear	400	1/15
		Immobilizer Streptavidin	436015	F96	Pinchbar	Solid	White	400	1/15
nity		Immobilizer Streptavidin	436016	F96	Pinchbar	Solid	Black	400	1/15
Affii	Strip/module plates 96 wells – clear	Immobilizer Streptavidin	436020	F8	Non breakable	Framed	Clear	400	1/15
		Immobilizer Streptavidin	436022	C8	Breakable	Framed	Clear	350	1/15
	384 well plates	Immobilizer Streptavidin	436017	F384	Pinchbar	Solid	Clear	120	1/15

Accessories

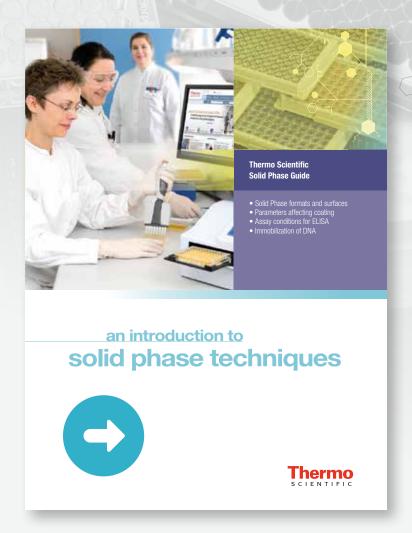
	Cat. no.	Fit strip / modules	Туре	Design	Color	Units per pack/case
Frame	<u>6604</u>	F12 Immulon modules (1 x 12)	Regular flange	Frame	White	10/10
Frame	431615	C8 BreakApart	Pinchbar	Frame	White	5/60
Frame	465404	F8, C8, U8 LockWell	Pinchbar	Frame	White	5/60
Frame	249182	V8 TopYield / NucleoLink	Pinchbar	Frame	Red	6/72
Frame	460348	F8, C8, U8, F16, U16	Pinchbar	Frame	White	5/60
Lid	6305	1x12 assembly	-	Lid	Natural	100/100
Lid	448143	Solid plates	-	Lid	White	20/120
Сар	430082	Standard modules	-	Сар	Natural	60/180
Push out tool	430414	BreakApart plates	-	Push out tool	Blue	240/240
Sealing tape	232701	Plates and modules	Polyolefin Acrylate	Sealing tape	Clear	100/100
Sealing tape	235306	Plates and modules	Polyethylene Silicone	Sealing tape	Clear	100/100
Sealing tape	236272	Plates and modules	Polyester Acrylate	Sealing tape	White	50/50
Sealing tape	236703	Plates and modules	Vinyl Acrylate	Sealing tape	Black	50/50

^{*} Available in Americas only

^{**} Available in EMEA only

Please check with your local sales representative whether the product you are interested is available in your country

Find the Best Product for Your Application



Thermo Scientific Solid Phase Guide

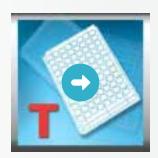


Plate Selection Guide



Microplate Readers



Diagnostic and Packaging Resources



In Vitro Diagnostic Products Guide



Speed Up Your Process with Thermo Scientific Microplate Readers

Thermo Scientific Multiskan FC

The Multiskan® FC microplate photometer is an easy-to-use ELISA reader for research and routine applications.

Thermo Scientific Multiskan GO

The Multiskan® GO spectrophotometer is a UV/Vis microplate and cuvette reader which offers free wavelength selection for both 96 and 384 well plates and various types of cuvettes.

Thermo Scientific Fluoroskan Ascent FL

The Fluoroskan® Ascent FL microplate reader is for both glow and flash luminometric and fluorometric research applications.

Thermo Scientific Varioskan Flash

The Varioskan® Flash spectral scanning multimode reader provides flexibility for a variety of different fluorescence intensity, TRF, photometric and luminescence based applications.











To help you find the best product for your application

Please visit our online plate selection tool thermofisher.com/plateguide

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