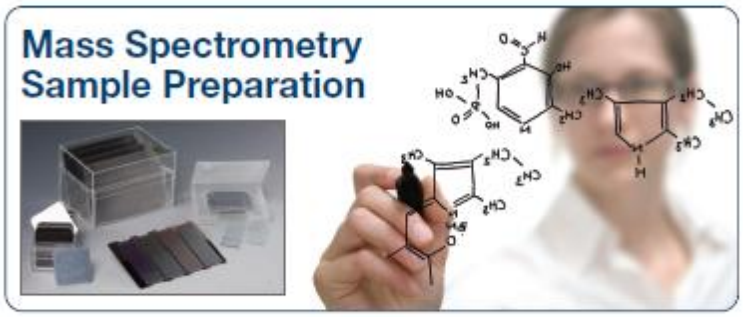
Hudson Surface Technology

Measure the Unmeasurable

Mass Spectrometry Sample Preparation



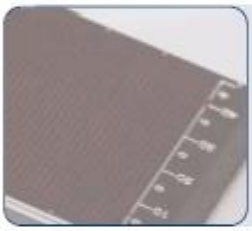
Hudson Surface Technology supplies consumables and related sample preparation materials for Matrix Assisted Laser Desorption Ionization (MALDI) Mass Spectrometry (MS).

Economical, Single-Use MALDI Targets

µFocus Sample Plates

High Sensitivity
High Reproducibility

*µ*Focus Sample Plates are single use MALDI targets featuring hydrophilic islands (*µ*Focus spots) on a hydrophobic surface to give precisely defined, controlled size sample spots for analysis.



µArray Sample Plates

Combinatorial Work
MALDI Imaging

*µ*Array Sample Plates are 25 x 75 mm *µ*Focus sample plates with a dense array of *µ*Focus spots to support high throughput and combinatorial work in a convenient format.

ITO Glass Sample Plates

MALDI Imaging
Light Microscopy

ITO Glass Sample Plates are 25 x 75 mm (also 50 x 75 mm) glass slides with a conductive indium-tin oxide coating to enable MALDI Imaging on biological tissue sections.

Tools for Sample Preparation

Functional Magnetic Beads

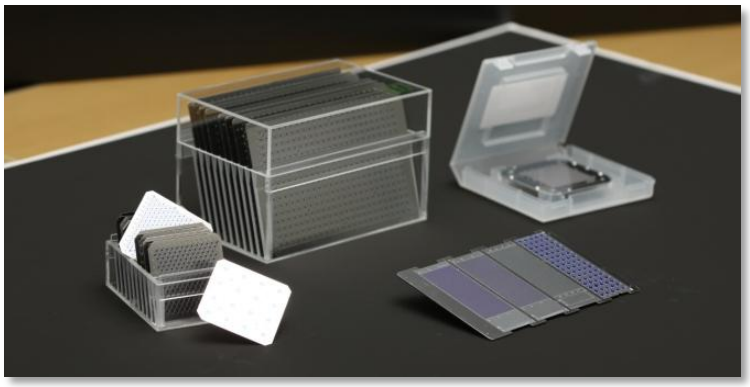
Functional Magnetic Beads are sub-micron sized magnetic beads with functional surfaces for selective molecular binding for separations.

1.973.565.9668

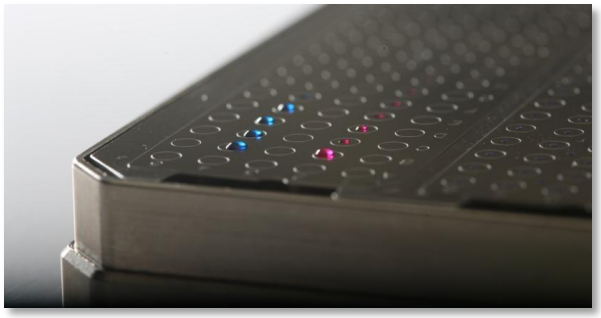
www.maldiplate.com

MALDI Targets

- Sensitivity
- Productivity
- Economy
- High Throughput
- Imaging



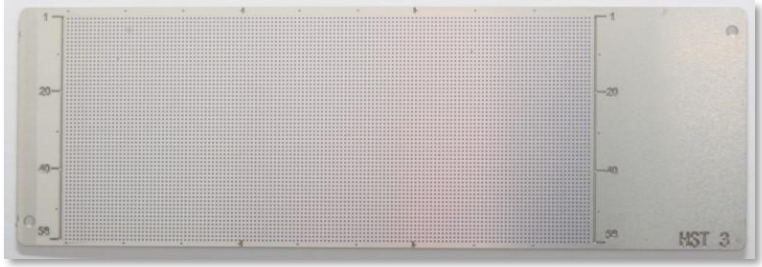
µFocus MALDI Sample Plates



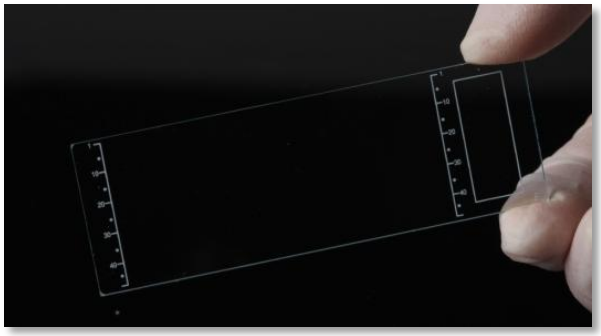
- Hydrophobic & Hydrophilic Patterning
- Small, Uniform Matrix Deposition
- Reduced Matrix → Increased Analyte Concentration
- Single Use Pricing → No Ghosting, No Cleanup

µArray MALDI Sample Plates

- Dense Spot Array → HTS
- *µ*Focus Technology → Sensitivity
- Single Use Pricing
- Imaging

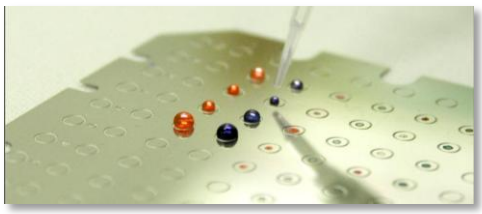


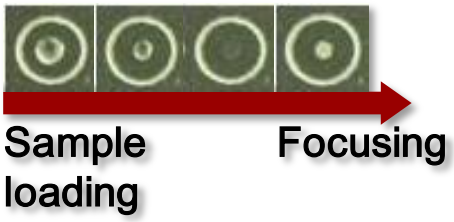
ITO Glass MALDI Sample Plates



- Robust Indium-Tin Oxide Coating
- 25 x 75 mm, Type I or Type II format
- Reduced Matrix → Increased Analyte Concentration
- Single Use Pricing → No Ghosting, No

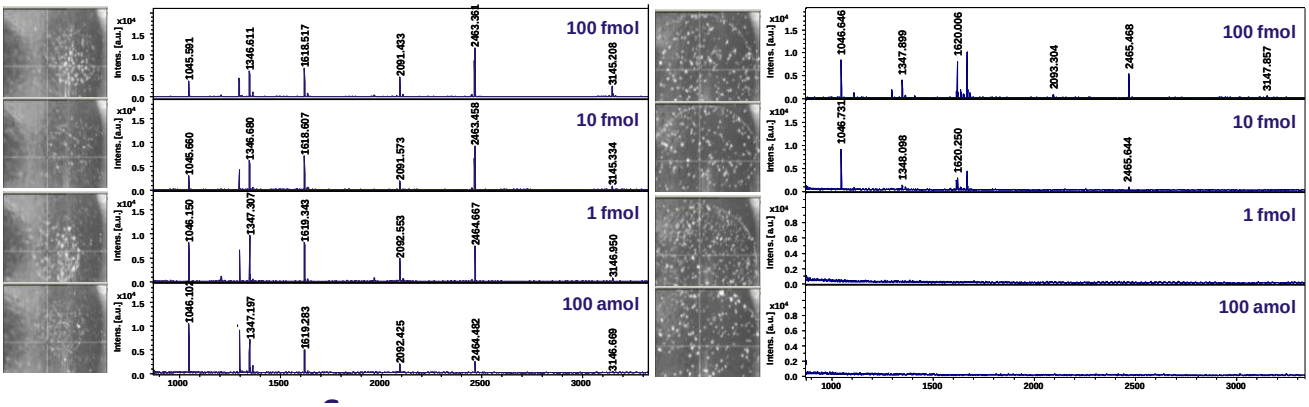
µFocus MALDI Targets



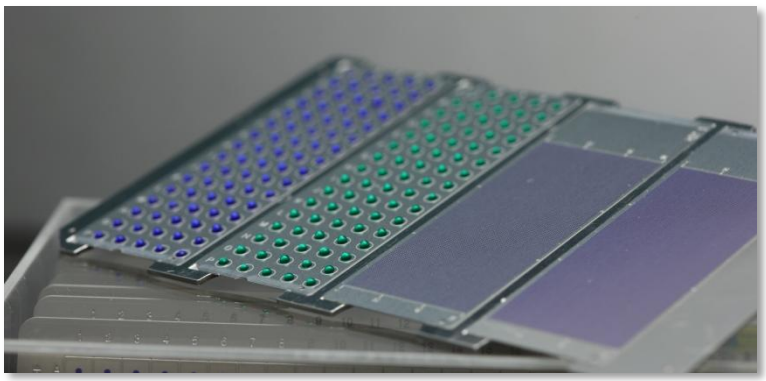


- Hydrophilic islands on a hydrophobic surface focus sample deposits to pre-defined spots with pre-defined sizes.
- Controlled-size deposits enable optimum matrix:analyte ratio with high or low concentration analyte.
- Low-cost manufacturing on thin stainless steel plates yield high-performance in a economical, single-use target.

Savings and productivity - more experiments in progress, less time spent cleaning plates, reduced costs for heavy sample traffic.



Spot morphology and sensitivity for standard (left) and *µ*Focus (right) steel plates.



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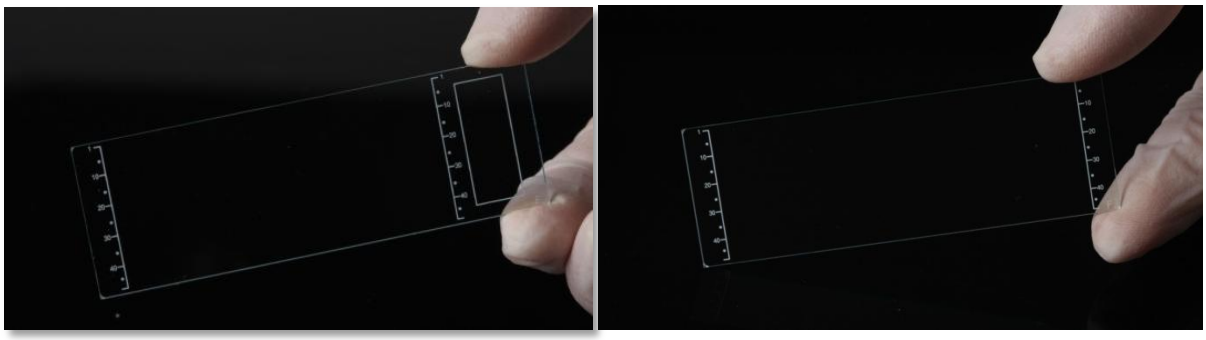
Sample Plates & Holders:

SKU	Status	Description
PFA0107	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 8*8 wells 700µm
PFA0110	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 8*8 wells 1000µm
PFA0124	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 8*8 wells 2400µm
PHA0100	Custom	MALDI plate AB Sciex 4700 & voyager Hydrophobic non-Focus, 8*8
PNA0100	Commercial	MALDI plate AB Sciex 4700 & voyager non-Hydrophobic non-Focus, 8*8
PFA0207	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 12*12 wells 700µm
PFA0210	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 12*12 wells 1000µm
PHA0200	Custom	µFocus MALDI plate AB Sciex 4700 & voyager Hydrophobic non-Focus, 12*12
PFA0307	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 12*16 wells 700µm
PFA0310	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 12*16 wells 1000µm
PHA0300	Custom	µFocus MALDI plate AB Sciex 4700 & voyager Hydrophobic non-Focus, 12*16
PFA0406	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager 24*24 wells 600µm
PHA0400	Custom	µFocus MALDI plate AB Sciex 4700 & voyager Hydrophobic non-focus, 24*24
HHA0101	Commercial	µFocus MALDI plate AB Sciex 4700 & Voyager Height Adjuster
HMA0101	Commercial	µFocus MALDI plate AB Sciex 4700 & Voyager Magnetic Holder
PFA2307	Commercial	µFocus MALDI plate AB Sciex 4800/5800 384 circles 700µm
PFA2309	Commercial	µFocus MALDI plate AB Sciex 4800/5800 384 circles 900µm
PFA2317	Commercial	µFocus MALDI plate AB Sciex 4800/5800 384 circles 1700µm
PHA2300	Commercial	MALDI plate AB Sciex 4800/5800 Hydrophobic non-Focus 384 circles
PNA2300	Commercial	MALDI plate AB Sciex 4800/5800 non-Hydrophobic non-Focus 384 circles
PHA2400	Commercial	MALDI plate AB Sciex 4800/5800 Hydrophobic LC-MALDI plate
PNA2400	Commercial	MALDI plate AB Sciex 4800/5800 Non Hydrophobic LC-MALDI plate
HHA0201	Commercial	µFocus MALDI plate AB Sciex 4800/5800 Height Adjuster
PFS2407	Commercial	µFocus MALDI plate Bruker & Shimadzu 384 circles 700µm
PFS2409	Commercial	µFocus MALDI plate Bruker & Shimadzu 384 circles 900µm
PFS2420	Commercial	µFocus MALDI plate Bruker & Shimadzu 384 circles 2000µm
PHS2400	Commercial	MALDI plate Bruker & Shimadzu Hydrophobic non-Focus 384 circles
PNS2400	Commercial	MALDI plate Bruker & Shimadzu non-Hydrophobic non-Focus, 384 circles
HMB0101	Commercial	µFocus MALDI plate Bruker Magnetic Holder
HMS0101	Commercial	µFocus MALDI plate Shimadzu Magnetic Holder -
PFB1107	Commercial	µFocus MALDI plate Bruker Microflex 96 circles 700µm
PFB1124	Commercial	µFocus MALDI plate Bruker Microflex 96 circles 2400µm
PSU0102	Commercial	µFocus MALDI plate 25 x 75 mm HST Array of 5076 spots, 5ea/pk 200µm
PSU0103	Commercial	µFocus MALDI plate 25 x 75 mm HST Array of 5076 spots, 5ea/pk 300µm
PSU0106	Commercial	µFocus MALDI plate 25 x 75 mm 5*16 circles 600µm
PSU0110	Commercial	µFocus MALDI plate 25 x 75 mm 5*16 circles 1000µm
PSU0126	Commercial	µFocus MALDI plate 25 x 75 mm 5*16 circles 2600µm
PSB0110	Commercial	µFocus MALDI plate 25 x 75 mm Magnetic Base for HST Array plate -
PSG0103	Commercial	µFocus MALDI plate 25 x 75 mm Nonfocus HST Array for imaging -
HMA0201	Commercial	µFocus MALDI plate AB Sciex 4800/5800 Magnetic Base for HST Array plate 4 pieces

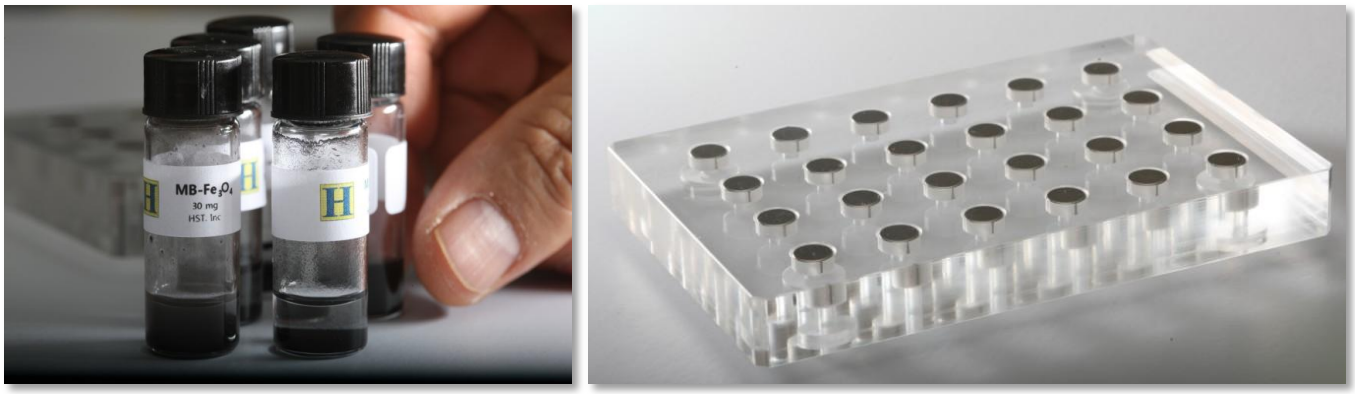
ITO Glass:

SKU	Status	Description
PSI0107	Commercial	ITO glass, Type I, 0.7/25 (0.7 mm thickness, 25 ea)
PSI0207	Commercial	ITO glass, Type I, 0.7/100 (0.7 mm thickness, 100 ea)
PSI0111	Commercial	ITO glass, Type I, 1.1/25 (1.1 mm thickness, 25 ea)
PSI0211	Commercial	ITO glass, Type I, 1.1/100 (1.1 mm thickness, 100 ea)
PSI1107	Commercial	ITO glass, Type II, 0.7/25 (0.7 mm thickness, 25 ea)
PSI1207	Commercial	ITO glass, Type II, 0.7/100 (0.7 mm thickness, 100 ea)
PSI1111	Commercial	ITO glass, Type II, 1.1/25 (1.1 mm thickness, 25 ea)
PSI1211	Commercial	ITO glass, Type II, 1.1/100 (1.1 mm thickness, 100 ea)

Type I (left) and Type II (right) ITO Glass Slides

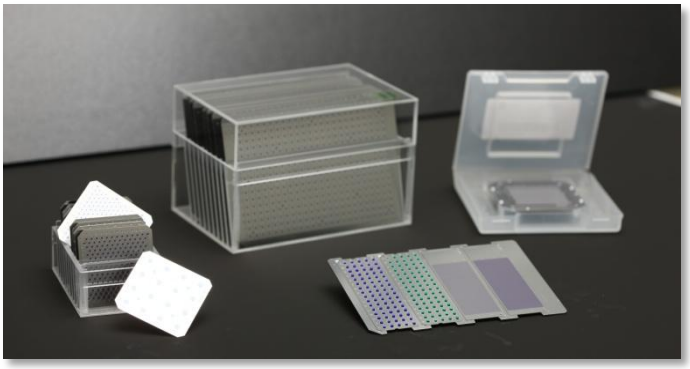


Functional Magnetic Beads (left) and 96 well separator (right)

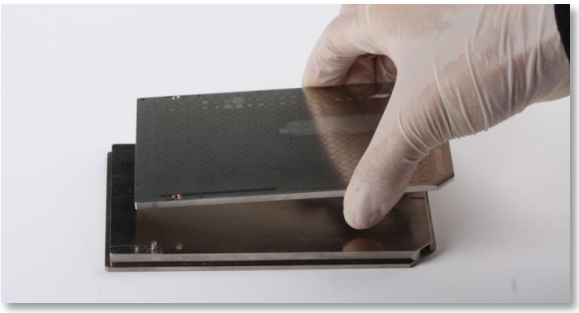


MALDI & Sample Accessories

- Adaptors & Frames
- User Convenience
- Organizers



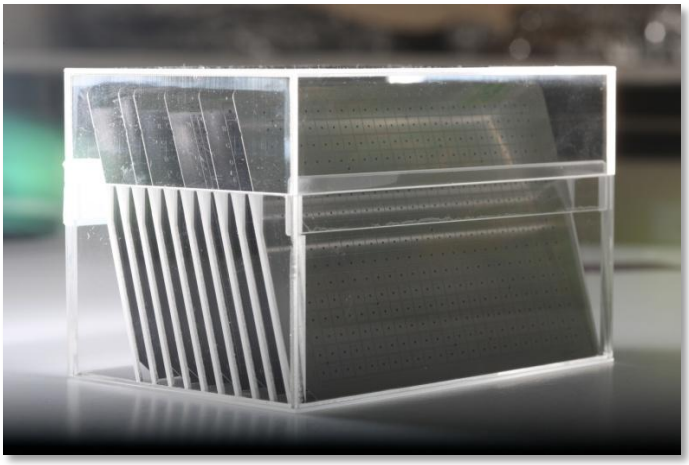
Adaptors & Frames



- Magnetic Holders for Bruker & Shimadzu
- Height Adjusters for ABI/AB Sciex
- Frames for 25 x 75 Targets

Organizers & User Convenience.

- Storage Boxes
- 12 position Separators
- 96 position Separators



Contact Us

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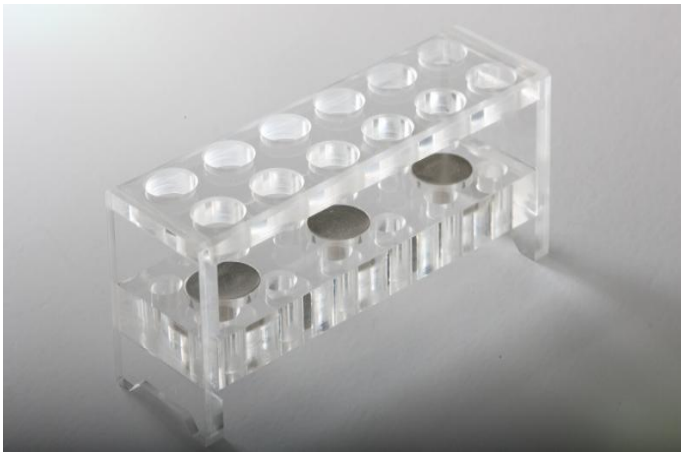
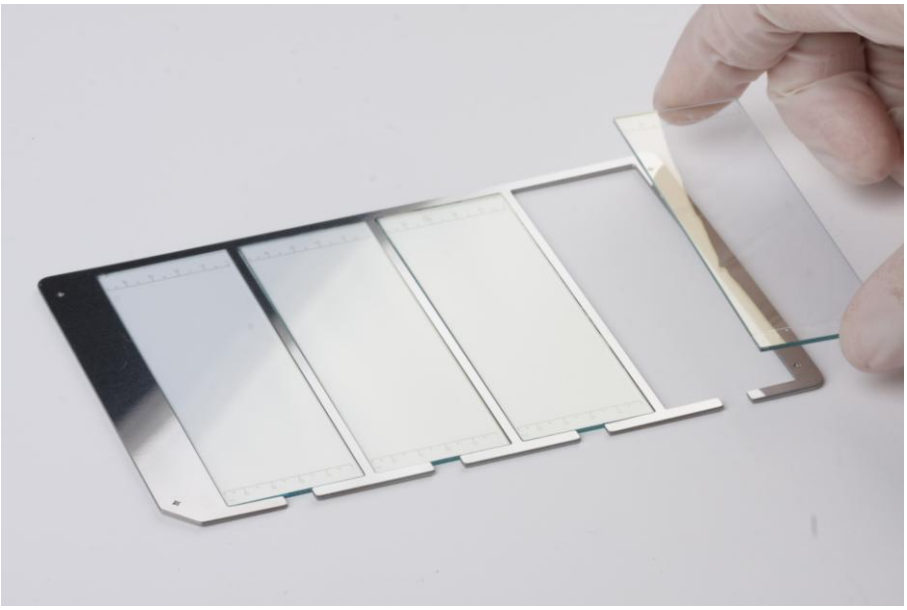


Magnetic Beads:

SKU	Status	Description
BMS0110	Commercial	SiO2 Magnetic Beads (100 mg/ml – 2 ml)
BMA0110	Commercial	Amine Magnetic Beads (30 mg/ml – 2 ml)
BMC0110	Commercial	COOH Magnetic Beads (30 mg/ml – 2 ml)
BMP0110	Commercial	PBA Magnetic Beads (30 mg/ml – 2 ml)

Accessories:

SKU	Status	Description
BMV0112	Commercial	Magnetic Beads Separator of 12position
BMV0296	Commercial	Magnetic Beads Separator for 96wells plate
CSA0101	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager Storage Box -
CSA0201	Commercial	µFocus MALDI plate AB Sciex 4800 Storage Box -
CSS0101	Commercial	µFocus MALDI plate Bruker & Shimadzu Common Storage Box -
HHA0101	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager Height Adjuster
HHA0201	Commercial	µFocus MALDI plate AB Sciex 4800/5800 Height Adjuster
HMA0101	Commercial	µFocus MALDI plate AB Sciex 4700 & voyager Magnetic Holder -
HMA0201	Commercial	µFocus MALDI plate AB Sciex 4800 Magnetic Base for HST Array plate 4 pieces -
HMB0101	Commercial	µFocus MALDI plate Bruker Magnetic Holder
HMS0101	Commercial	µFocus MALDI plate Shimadzu Magnetic Holder
HSA0201	Commercial	µFocus MALDI plate AB Sciex 4800/5800 Slide Glass Guide for 2 pieces -
HSA0202	Commercial	µFocus MALDI plate AB Sciex 4800/5800 Slide Glass Guide for 4 pieces -
HSA0203	Commercial	µFocus MALDI plate AB Sciex 4800/5800 50*100 Glass Guide -



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