

J.T.Baker® Robotic Consumables

01. ROBOTIC TIPS,
PLATES & MORE

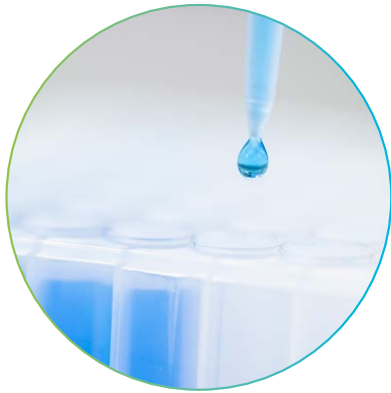
02. DESIGNED FOR
LESS DOWNTIME

03. ISO CERTIFIED
MANUFACTURING



Discover how our high quality J.T.Baker® products for third party robotic sampling systems can help improve your analytical and high throughput operations.

J.T.Baker® Robotic Tips



The quality you want for the trusted results you need. J.T.Baker® premium conductive and clear tips for laboratory robotic and liquid handling systems, are manufactured and tested to deliver the reliable results you need to move science forward.

OVER A CENTURY OF QUALITY

For more than a century, customers around the world have trusted the application-optimized and function-tested performance of J.T.Baker® brand premium products to meet the demanding needs of a wide range of research and manufacturing applications. J.T.Baker® products are compatible with several leading robotic instruments on the market. The names and manufacturers of these products are mentioned below purely for identification purposes.

DESIGNED FOR LESS DOWNTIME

Leveraging decades of experience and innovation from our Germany-based production team, J.T.Baker® robotic tips help maximize robotic tool utilization and minimize downtime, with a straighter tip and lower coefficient of variation that reduces tip breakage.

ISO CERTIFIED MANUFACTURING

Our quality is ISO certified: Our production facility is certified according to ISO 9001; we are certified according to ISO 13485:2016 for the production of medical and IVD products, and our manufacturing process adheres to the ISO 50001:2011 energy management system standard.

INDEPENDENTLY TESTED FOR PURITY

Each batch of blistered tips are tested according to rigorous quality procedures to ensure they are contaminant-free, and they are independently tested and certified free from DNase, RNase, PCR inhibitors and pyrogens.

PRECISE RESULTS. LESS DOWNTIME.

Engineered at the highest production standards, our J.T.Baker® robotic tips can dose even small volumes with high precision and no contamination. These tips are designed for some of the most popular robotic research workstations.

Suitable for a wide range of applications, J.T.Baker® conductive and clear tips are trusted by many life sciences and diagnostic laboratories worldwide and are supported for easy, convenient global ordering and delivery through Avantor's market leading e-commerce channel, vwr.com.

COMPLETE CLEANROOM AUTOMATION

J.T.Baker® robotic tips are literally untouched by human hands until you open the packaging: Our fully automated production line operates under cleanroom conditions to deliver tips that satisfy the most rigorous specifications for compatibility and cleanliness. And our tool making facilities and cutting-edge manufacturing technology result in some of the highest precision tips on the market.

All third-party trademarks referenced herein are the exclusive property of their respective owners.



Table of contents

TIPS

J.T.Baker® tips type HT CO-RE
Page 4

J.T.Baker® tips type TE
Pages 5 – 6

J.T.Baker® tips type MP
Page 7

J.T.Baker® tips type ST
Page 8



J.T.Baker® tips type DX
Page 9

J.T.Baker® tips type OLA
Page 10

J.T.Baker® tips type QG
Page 11

PLATES

PCR plate 96 rigid
Pages 12

SRW disposable plates
and tip combs
Pages 13 - 14

Square well plates
Page 15

Medio 96-well plates
Page 16

96-well plates
Page 17



384-well plates
Pages 18

Round well plates
Page 19

Dilution Strips SW
Page 20

J.T.Baker® tips type HT CO-RE




J.T.Baker® tips suitable for third party robotic instruments Hamilton* Microlab Star*, Nimbus*, and other robotic instruments using the same pipetting head (CO-RE)

With conductive robotic tips from Avantor, even small volumes can be dosed with high precision and without contamination. Conductivity enables the system to recognize the filling height and will provide a minimal immersion of the tip into the liquid, in order to ensure safe pipetting and dispensing.

Conductive tips are produced under cleanroom conditions and tested from independent laboratories to be free of DNA, DNase, RNase and PCR inhibitors. J.T.Baker tips HT CO-RE are available with or without filter.



Single tray of 96 tips.

Volume	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
 50 µl	No	No	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49010-0003
50 µl	No	Yes	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49010-0105
50 µl	Yes	No	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49010-1005
50 µl	Yes	Yes	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49010-1105
 300 µl	No	No	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49008-0003
300 µl	No	Yes	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49008-0105
300 µl	Yes	Yes	Yes	Black	12× 5 racks, 96 each, blistered	5.760	49008-1105
 1000 µl	No	No	Yes	Black	8× 5 racks, 96 each, blistered	3.840	49009-0005
1000 µl	No	Yes	Yes	Black	8× 5 racks, 96 each, blistered	3.840	49009-0105
1000 µl	Yes	No	Yes	Black	8× 5 racks, 96 each, blistered	3.840	49009-1005
1000 µl	Yes	Yes	Yes	Black	8× 5 racks, 96 each, blistered	3.840	49009-1105

* Hamilton, Microlab Star™ and Nimbus® are registered trademarks of Hamilton company.

J.T.Baker® tips type TE

J.T.Baker® tips suitable for third party robotic instruments Tecan* and other OEM workstations






Conductive, 1000 µl, wide bore

J.T.Baker tips type TE are available in conductive and non-conductive version, with or without filter.

The tips are manufactured under cleanroom conditions and are free of DNA, DNase, RNase and PCR inhibitors (blistered tips only).

In addition to the standard line, Avantor offers new wide bore

robotic tips that have been developed with a 50% wider opening through which particularly viscous samples such as cell cultures, blood samples, macromolecules or oils can be pipetted gently and at high recovery rate.

Volume	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
							
50 µl	No	No	Yes	Black	18x 10 racks, 96 each, cardboard, S-Tray	17.280	49006-0000
50 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49006-0006
50 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49006-0007
50 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49006-0106
50 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49006-0107
50 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49006-1106
50 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49006-1107
							
200 µl	No	No	Yes	Black	18x 10 racks, 96 each, cardboard, S-Tray	17.280	49002-0000
200 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49002-0006
200 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49002-0007
200 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49002-0106
200 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49002-0107
200 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49002-1106
200 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49002-1107
							
1000 µl	No	No	Yes	Black	10x 10 racks, 96 each, cardboard, S-Tray	9.600	49003-0000
1000 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49003-0006
1000 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49003-0007
1000 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49003-0106
1000 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49003-0107
1000 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49003-1106
1000 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, C-Tray	2.304	49003-1107

* Tecan, Tecan Freedom Evo and Tecan Fluent are registered trademarks of Tecan company.

ROBOTIC TIPS


J.T.Baker® tips type TE are suitable for use on Tecan* Freedom EVO (typically uses tips in S-Tray = hanging tray), Tecan Fluent (typically uses tips in C-Tray for ANSI/SLAS format tip box) and other OEM robotic instruments.

The validation of the tips on the instrument for specific applications is within the responsibility of the user.





Conductive, 1000 µl, tray.

WIDE BORE

Volume	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
							
1000 µl	No	No	Yes	Black	10x 10 racks, 96 each, cardboard, S-Tray	9.600	49033-0000
1000 µl	No	No	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49033-0006
1000 µl	No	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49033-0106
1000 µl	Yes	Yes	Yes	Black	12x 2 racks, 96 each, blistered, S-Tray	2.304	49033-1106
1000 µl	No	No	No	Clear	10x 10 racks, 96 each, cardboard, S-Tray	9.600	49133-0000

CLEAR TIP

Volume	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
							
50 µl	No	No	No	Clear	18x 10 racks, 96 each, cardboard, S-Tray	17.280	49106-0000
50 µl	Yes	Yes	No	Clear	12x 2 racks, 96 each, blistered, S-Tray	2.304	49106-1106
							
200 µl	No	No	No	Clear	18x 10 racks, 96 each, cardboard, S-Tray	17.280	49102-0000
200 µl	No	No	No	Clear	12x 2 racks, 96 each, blistered, S-Tray	2.304	49102-0006
200 µl	Yes	Yes	No	Clear	12x 2 racks, 96 each, blistered, S-Tray	2.304	49102-1106
							
1000 µl	No	No	No	Clear	10x 10 racks, 96 each, cardboard, S-Tray	9.600	49103-0000
1000 µl	No	No	No	Clear	12x 2 racks, 96 each, blistered, S-Tray	2.304	49103-0006
1000 µl	Yes	Yes	No	Clear	12x 2 racks, 96 each, blistered, S-Tray	2.304	49103-1106

TIP BOX

Description	Pk	Cat. No.
Tip box for C-Tray 1000 µl tips	5	45009-2000
Tip box for C-Tray 50 and 200 µl tips	10	45009-3000



Conductive, 1000 µl, in tip box

*Tecan, Tecan Freedom Evo and Tecan Fluent are registered trademarks of Tecan company.

J.T.Baker[®] tips type MP

Available in conductive version, with filter and non-sterile.

- Manufactured under cleanroom conditions (cleanroom Class 8)
- State of the art quality control
- Barcoded trays for automated identification
- Free of DNA, DNase, RNase and PCR inhibitors
- Ideal for high throughput analysis
- Packed in blisters

The tips are suitable for use with Roche MagNA Pure* instruments.



Volume	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
1000 µl	No	Yes	Yes	Black	8× 5 racks, 96 each, blistered	3.840	49209-0105

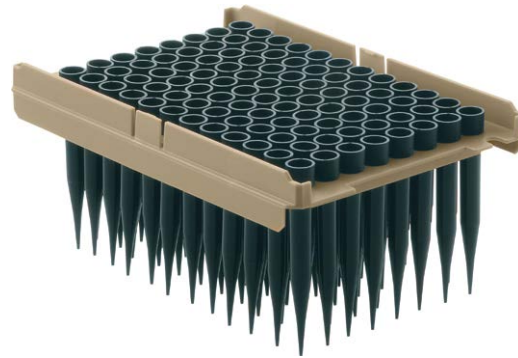
* Roche MagNA Pure[®] is a registered trademark of Roche company.

J.T.Baker® tips type ST



J.T. Baker® tips suitable for third party robotic instruments Stratec and other OEM workstations

Available in conductive version, with or without filter.
 J.T.Baker® tips type ST are suitable for use on Euroimmun Analyzer and other robotic instruments using the same pipetting head.

The validation of the tips on the instrument for specific applications is within the responsibility of the user.



Conductive, 300 µl, tray.

Volume	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
							
300 µl	No	No	Yes	Black	18× 10 racks, 96 each, cardboard	17.280	49000-0000
300 µl	No	No	Yes	Black	12× 2 racks, 96 each, blistered	2.304	49000-0006
300 µl	Yes	Yes	Yes	Black	12× 2 racks, 96 each, blistered	2.304	49000-1106
							
1100 µl	No	No	Yes	Black	10× 10 racks, 96 each, cardboard	9.600	49001-0000
1100 µl	No	Yes	Yes	Black	12× 2 racks, 96 each, blistered	2.304	49001-0106
1100 µl	Yes	Yes	Yes	Black	12× 2 racks, 96 each, blistered	2.304	49001-1106

J.T.Baker® tips type DX

J.T.Baker® tips suitable for use on third party robotic instruments Dynex*

J.T.Baker® tips suitable for use on Dynex* instruments. With a modern production line and under cleanroom conditions, the tips are manufactured to provide the highest quality specifications for compatibility and cleanliness.



- For use with DSX* and DS2* instruments
- Packaging unit: 4x 108 tips
- Sample tips volume: 300 µl
- Reagent tips volume: 20 to 1300 µl



Sample tips, blue.



Reagent tips, clear.

Volume	CE-IVD	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
 300 µl	No	No	No	No	Blue	1x 4 racks, 108 each	432	49136-0000
 1300 µl	No	No	No	No	Clear	1x 4 racks, 108 each	432	49137-0000

* Dynex, Dynex DSX and Dynex DS2 are registered trademarks of Dynex Technologies company.

J.T.Baker® tips type OLA

Robotic tips for efficient sample processing


Modern healthcare institutes require the highest standards from their partners. Avantor offers conductive tips that are suitable for use in OLA 2500 and AutoMate 1250/2550 instruments, in order to provide a smooth production flow and high quality results.

- Volume: 20 µl to 1200 µl
- Quantity per rack: 140 tips (sealed)
- Rigid rack for optimized tip acceptance in the OLA 2500 and AutoMate 1250/2550
- Packed: 8x 140 tips

The validation of the tips on the instrument for specific applications is within the responsibility of the user.



Conductive, 1200 µl, rack.

Volume	CE-IVD	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
 1200 µl	No	No	No	Yes	Black	1x 8 racks, 140 each, foiled	1.120	49044-0000
1200 µl	No	No	Yes	Yes	Black	1x 8 racks, 140 each, foiled	1.120	49044-0100

J.T.Baker® tips type QG

J.T.Baker® tips suitable for use on third party robotic instruments QIAgility*

Type QG tips are available in conductive version, with filter, non-sterile.

- Manufactured under cleanroom conditions (cleanroom class 8)
- State of the art quality control
- Free of DNA, DNase, RNase and PCR inhibitors
- Ideal for high-throughput analysis and DNA purification
- Packed in blister

The validation of the tips on the instrument for specific applications is within the responsibility of the user.



Volume	CE-IVD	Sterile	Filter	Conductive	Tip colour	Packed	Pk	Cat. No.
200 µl	No	No	Yes	Yes	Black	12× 2 racks, 96 each, blistered	2.304	49002-0106

* QIAgility is a registered trademark of QIAGEN company.

PCR plate 96 rigid

Robotic PCR plate for PCR/qPCR set up



43001-0301

J.T.Baker® PCR plates are constructed with **2 components plastics**: Polycarbonate ultra-rigid frame for automation and Polypropylene ultra-thin wells for optimal thermal transfer and qPCR results.

The wells are white to ensure high quality qPCR results by concentrating fluorescent signal, preventing loss of signal, and allowing for better signal detection by the instrument.

PCR plates are:

- Standard SBS format for use with automation
- Slightly raised well rims for better sealing
- Stackable and comes with 8 notches for easy insertion on thermoblock
- White frame, white wells
- Alphanumeric well markings
- V Bottom
- 200µl total volume
- Produced under cleanroom conditions (ISO 14644-1 class 8)
- Free from DNA, DNase, RNase, and PCR inhibitors.

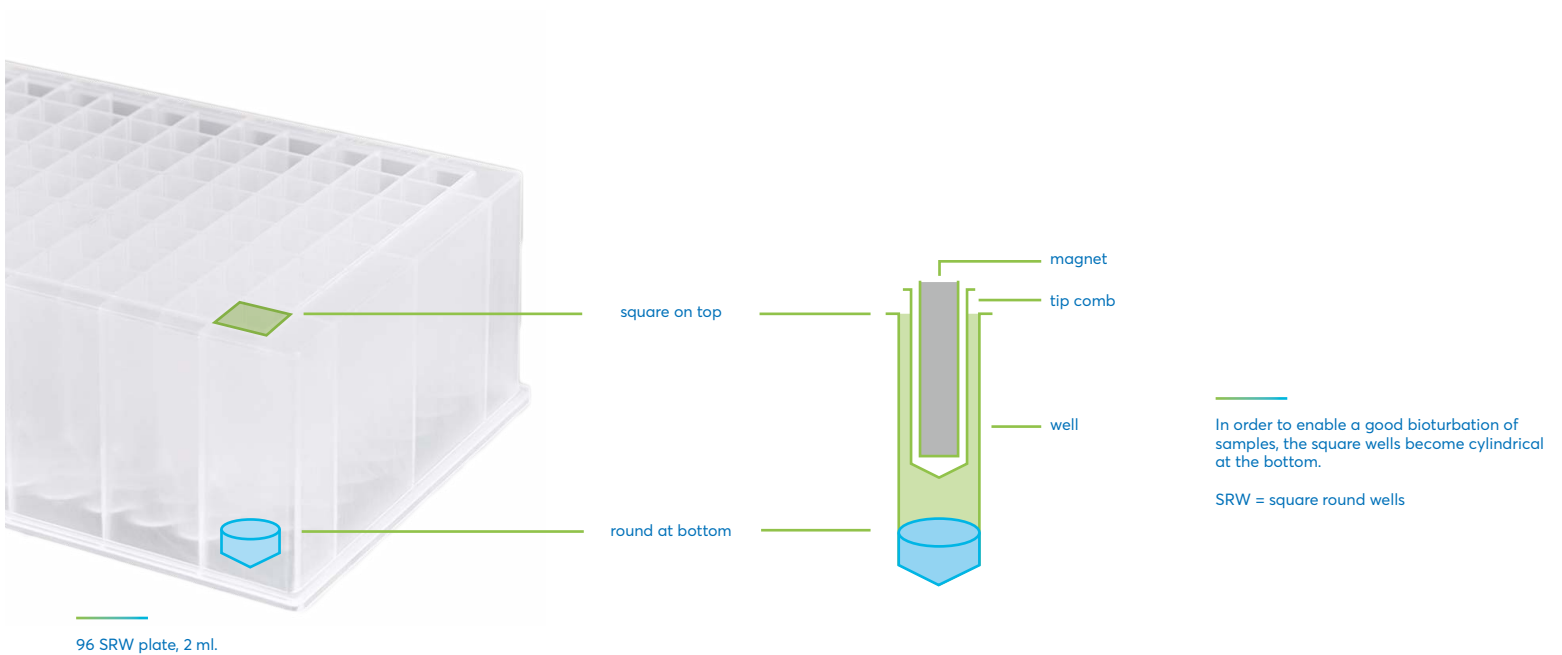
Applications: Sample Preparation & PCR, qPCR, NGS library set up

J.T.BAKER® PCR PLATE 96 RIGID

Description	Material	Frame colour	Well colour	No. of well	Profile	Skirt	Barcoded	Pk	Cat. No.
PCR Plate 96 Rigid	PP/PC	White	White	96	Low profile	Full skirted	-	50	43001-0301

SRW disposable plates and tip combs

For cleaning and mixing of samples.
For storage and preparation of substances.



- Newly developed cylindrical wells enable good bioturbation of samples
- Slightly raised rims reduce the risk of cross-contamination
- The alphanumeric code allows the registration and identification of individual samples even in confined spaces

PLATES

SRW is in line with the SBS standard (Society for Biomolecular Screening). The plates and tip combs have been specifically developed for magnetic separation technology.

The technology is based on magnetic particles that allow fast and efficient sample preparation with high throughput. In order to perform this separation process in a reproducible way on a long-term basis, Avantor has developed precise plate components made from high purity polypropylene.

Suitable for:

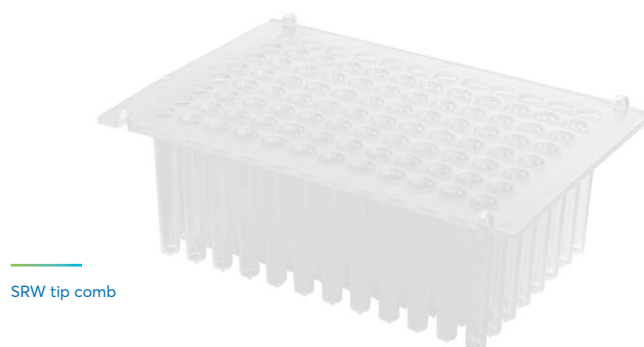
- KingFisher™ 96 Flex and KingFisher™ Presto magnetic particle processor



SRW 0,2 ml



SRW 2,0 ml



SRW tip comb

J.T.BAKER® SRW DISPOSABLE PLATES AND TIP COMBS

Description	Well volume	Colour	Packed	Cat. No.
Plate SRW magnetic	0,2 ml	Transparent	60	43001-0506
Plate SRW magnetic	2,0 ml	Transparent	60	43001-0504
Tip Comb	-	Transparent	60	43001-0505

* KingFisher™ is a registered trademark of Thermo Fisher Scientific company.

Square well plates

For a maximum capacity utilization

Square well plates have been developed for optimal use of capacity when it comes to sample storage. Due to the SBS format, the outside dimensions of square well plates are given.

Form follows function: The construction of cavities is crucial for maximum absorption of liquids. Thin walled and parallel cavities ensure a maximum of contamination-free sample storage per well. Every square well plate has an alphanumeric marking. For closing square well plates, respective cap mats can be used as well as adhesive films. In addition, the plates can be closed by heat sealing. Analytical methods, as for example chromatography, can detect lowest impurities. For this reason, square well plates are manufactured out of pure polypropylene.

The relatively high volume allows closing of square well plates with cap mats without any liquid displacement and cross contamination, towards comparable plates with lower volumes from other manufacturers.



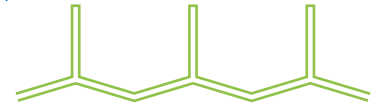
Square well plates 2 ml, 96 wells

- Total volume: Max. 2,5 ml/well
- Working volume: 50 µl up to 2,4 ml
- U-bottom shape
- Capmats need to be ordered separately



Square well plate 5 ml, 48 wells

- Total volume: Max. 5,0 ml/well
- Working volume: 50 µl up to 4,9 ml
- V-bottom shape
- Capmats need to be ordered separately



Square well plates 10 ml, 24 wells

- Total volume: Max. 10,0 ml/well
- Working volume: 50 µl up to 9,9 ml
- V-bottom shape
- Capmats need to be ordered separately

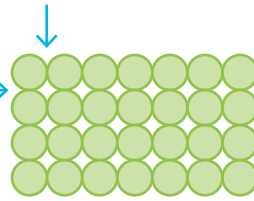


Description	Well volume	Colour	Packed	Cat. No.
24-well plate	10,0 ml	Transparent	20	43001-0066
48-well plate	5,0 ml	Transparent	20	43001-0062
96-well plate	2,0 ml	Transparent	20	43001-0020

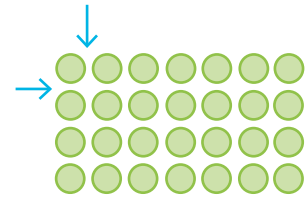
Accessories				
Description	Optimal property	Material	Packed	Cat. No.
Capmat for J.T.Baker® Plate Square Well 48	Transparent	EVA	20	43001-0069
Capmat for J.T.Baker® Plate Square Well 24	Transparent	EVA	20	43001-0070
Capmat for J.T.Baker® Plate Square Well 96	Transparent	EVA	20	43001-0022

Medio 96-well plates

Saves 50% of storage capacity



Medio plates and plates RW, 2 ml more volume due to tangentially shared wells.



Medio plates 1 ml.

Medio plates

- Due to the tangency of Medio plates, up to 50% less stacking height is needed
- Higher well rims allow an airtight closure or sealing of Medio plates
- Alphanumeric marking allows the registration and identification of single samples
- Conical wells provide a good bioturbation

Medio plates 0,5 ml

- Height only: 20,5 mm
- Total volume: 0,65 ml/well
- Working volume: 20 µl to 500 µl/well

Medio plates 2,0 ml

- Height only: 44,0 mm
- Total volume: 2,0 ml/well
- Working volume: 1,9 ml/well

Medio plates 1 ml

- Height only: 27,0 mm
- Total volume: 1,2 ml/well
- Working volume: 50 µl to 1000 µl/well



J.T.BAKER® MEDIO 96-WELL PLATES

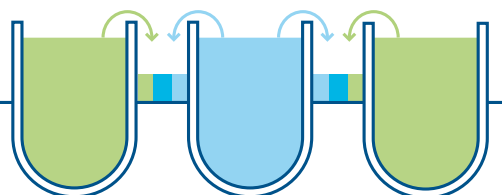
Description	Colour	Recommended working volume	Well volume	Packed	Cat. No.
Plate Medio, 0.5 ml	Transparent	20 - 500 µl	0,65 ml	40	43001-0102
Plate Medio, 1 ml	Transparent	50 - 1000 µl	1,2 ml	32	43001-0101
Plate Medio, 2 ml	Transparent	50 - 2000 µl	2,3 ml	20	43001-0103

96-well plates

Suitable for ELISA applications



The **96-well plates** are decoupled by intermediate wells. The mixing of samples by carry-over is reduced significantly with this shaping of the plate.



- 96-well plates are made out of highly transparent polystyrene that ensures an optimal surface for microscopic analysis
- 96-well plates are available in different shapes (U-, V- and F-shape)
- Due to the alphanumeric coding, samples can be clearly assigned and identified

J.T.BAKER® 96-WELL PLATES

Description	Packed	Cat. No.
96-well plate PP, U-bottom, 300 µl/well	64	43001-0600
96-well plate PS, U-bottom, 300 µl/well	100	43001-0117
96-well plate PS, V-bottom, 240 µl/well	100	43001-0118
96-well plate PS, F-bottom, 350 µl/well	100	43001-0119

384-well plates

Optimized for smaller volumes



- Available in PP for automated screening and storage systems
- Alphanumeric marking for sample identification
- Square wells for more volume
- V-bottom for high sample recovery
- 3 mm high frame for a stable, slip-free stacking
- Higher well rims avoid cross contamination

Description	Colour	Recommended working volume	Well volume	Packed	Cat. No.
PP plates	Transparent	5 - 110 µl	120 µl	60	43004-0120
PP plates	Transparent	5 - 180 µl	200 µl	40	43004-0200

Round well plates

Deepwell plate – standard in multifunction

- Raised wells of PP plus plates reduce the risk of cross-contamination and increase the security of heat sealing or sealing with adhesive films
- For defrosting of samples in a hot-water bath, PP plus plates have been developed
- U-shaped well bottom reduces death volume



Round wells plus with air escapes and raised rims.

Description	Colour	Well volume	Packed	Cat. No.
Round well PP plates raised rims plus	Transparent	1,0 ml	20	43001-0116
Round well PP plates raised rims	Transparent	1,0 ml	20	43001-0016
Round well PS plates raised rims	Clear	1,0 ml	20	43001-0010
Accessories				
Capmat for plate round well 1 ml			20	43001-0017

Dilution Strips SW



Dilution Strips SW

- Strip of 8 wells
- Made of PP

J.T.Baker® dilution strips are suitable for use on third party robotic instruments Dynex DSX* and DS2*

Description	Packed	Working volume	Cat. No.
Dilution Strips SW	250	2 ml	43001 - 0031

* Dynex, Dynex DSX and Dynex DS2 are registered trademarks of Dynex Technologies company.



SCIENCE DELIVERED

From scientific discovery to scale-up and commercial delivery, you need mission-critical products, services and solutions on a global scale.

Avantor® offers global access to our own portfolio of trusted, quality brands and critical products through our premier delivery platform, VWR®. All of this, combined with infrastructure strategically located to help serve your specific needs, helps move science forward – fast. That's **science delivered**.

Get the mission-critical scientific products and solutions you need from Avantor, delivered through VWR.

➔ [vwr.com/science-delivered](https://www.vwr.com/science-delivered)

The Avantor logo is repeated here, featuring the stylized 'A' icon and the word 'avantor' in lowercase, followed by 'delivered by VWR' in a smaller, uppercase font.