

# J.T.Baker Robotic Consumables

01. ROBOTIC TIPS,  
PLATES & MORE

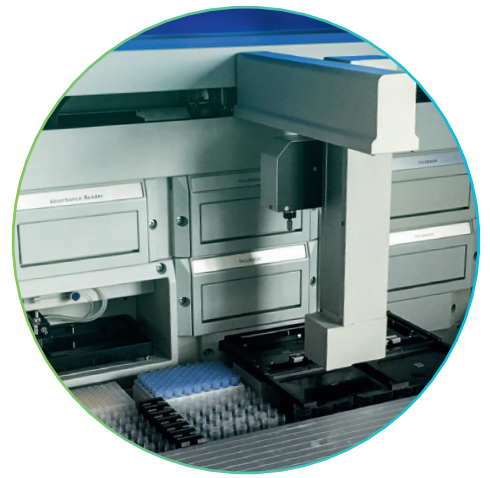
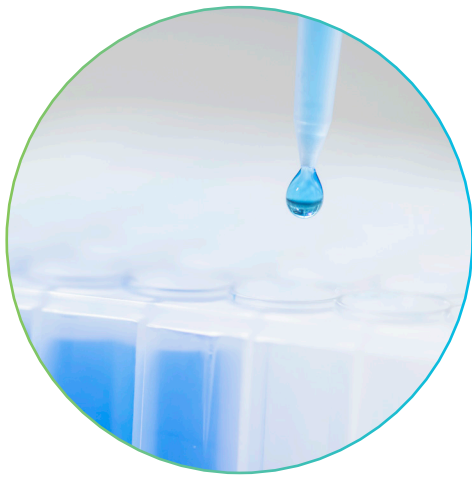
02. DESIGNED FOR  
LESS DOWNTIME

03. ISO CERTIFIED  
MANUFACTURING



Discover how our high quality J.T.Baker products for robotic sampling systems can help improve your analytical and diagnostic 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.

## 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 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, ATP 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](https://www.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.



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# Type Hamilton




Robotic tips for **Hamilton Microlab Star™**, **Nimbus®**, **Vantage™** and **Microlab Prep**

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 DNase, RNase, ATP and pyrogens. Each lot of these tips is tested according to the quality management system by Avantor to ensure reproducible application results.



Single tray of 96 tips.

Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
Non-Sterile Tips					
					
Filtered	Black	50 µl	12x 5 racks, 96 each, blistered	5760	49010-0105
Non-Filtered	Black	50ul	12x 5 racks, 96 each, blistered	5760	49010-0003
					
Filtered	Black	300 µl	12x 5 racks, 96 each, blistered	5760	49008-0105
Non-Filtered	Black	300ul	12x 5 racks, 96 each, blistered	5760	49008-0003
					
Filtered	Black	1000 µl	8x 5 racks, 96 each, blistered	3840	49009-0105
Non-Filtered	Black	1000 µl	8x 5 racks, 96 each, blistered	3840	49009-0005

Microlab Star™, Nimbus® and Vantage™ are registered trademarks of Hamilton AG.



# Type Tecan

## Robotic tips for **Tecan** and **other OEM** workstations

Both in life sciences as well as in clinical diagnostics, the number of samples to be analyzed is increasing constantly. For a personalized therapy, not only the correct dosage of the respective drugs is necessary, but also a concerted preliminary assessment of the individual blood samples. Blood molecules must be treated as gently as possible in order not to destroy their cell structures during pipetting.



Avantor offers new wide bore robotic tips for this application. These pipette tips have been developed with a 50% wider opening through which particularly viscous samples such as

blood plasma can be pipetted gently. The wide opening of the tip reduces the flow resistance of viscous samples thus protecting sensitive cells. This robotic tip in particular, is most suitable for cell cultures, blood samples, macromolecules or oils.

The sample residue in the tip is minimized and pipetting accuracy is increased because of the wide opening which leads to a high sample recovery for viscous samples based on protein or genomic material, for example. This ensures high quality biological sample results.

The new 1000 µl wide bore pipette tip made of pure polypropylene, is available in both clear and conductive. The tips are manufactured under cleanroom conditions and are free from ATP, RNase, human DNA and endotoxins.





Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
<b>Conductive tips</b>					
					
Non-Filtered	Black	50 µl	18× 10 racks, 96 each, cardboard, S-Tray	17280	<b>49006-0000</b>
Non-Filtered	Black	50 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	<b>49006-0006</b>
Non-Filtered	Black	50 µl	12× 2 racks, 96 each, blistered, C-Tray	2304	<b>49006-0007</b>
Filtered	Black	50 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	<b>49006-0106</b>
Filtered	Black	50 µl	12× 2 racks, 96 each, blistered, C-Tray	2304	<b>49006-0107</b>
					
Non-Filtered	Black	200 µl	18× 10 racks, 96 each, cardboard, S-Tray	17280	<b>49002-0000</b>
Non-Filtered	Black	200 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	<b>49002-0006</b>
Non-Filtered	Black	200 µl	12× 2 racks, 96 each, blistered, C-Tray	2304	<b>49002-0007</b>
Filtered	Black	200 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	<b>49002-0106</b>
Filtered	Black	200 µl	12× 2 racks, 96 each, blistered, C-Tray	2304	<b>49002-0107</b>

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Type Tecan is compatible with the following robotic instruments:

- Abbott Diagnostic: m2000
- Adaltis: NEXgen
- AXA Diagnostics: SkyLAB 752
- Hologic: Panther Fusion
- NGNY: AQUA System
- Perkin Elmer (Packard): Multiprobe II, Janus with Multiprobe head
- QIAgen/Corbett: CAS 1200/4200/4800, QIAgility (49002-0106 only)
- Tecan: Genesis, Freedom EVO, MiniPrep, Cavro, Fluent (C-Tray only)



Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
Conductive tips					
					
Non-Filtered	Black	1000 µl	10× 10 racks, 96 each, cardboard, S-Tray	9600	49003-0000
Non-Filtered	Black	1000 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	49003-0006
Non-Filtered	Black	1000 µl	12× 2 racks, 96 each, blistered, C-Tray	2304	49003-0007
Filtered	Black	1000 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	49003-0106
Filtered	Black	1000 µl	12× 2 racks, 96 each, blistered, C-Tray	2304	49003-0107
Conductive tips, wide bore					
					
Non-Filtered	Black	1000 µl	10× 10 racks, 96 each, cardboard, S-Tray	9600	49033-0000
Non-Filtered	Black	1000 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	49033-0006
Filtered	Black	1000 µl	12× 2 racks, 96 each, blistered, S-Tray	2304	49033-0106
Clear tips					
Non-Filtered	Clear	200 µl	18× 10 racks, 96 each, cardboard, S-Tray	17280	49102-0000
Non-Filtered	Clear	1000 µl	10× 10 racks, 96 each, cardboard, S-Tray	9600	49103-0000

Tecan is a registered trademark of Tecan AG.

# Type Roche MagNA Pure

Available in conductive version, with filter, non sterile.

- Manufactured under cleanroom conditions (cleanroom Class 8)
- State of the art quality control
- Barcoded trays for automated identification
- Purity level: PCR clean
- Ideal for high throughput analysis
- Packed in blister packaging

The tips are designed for use with the Roche MagNA Pure instrument.



Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
 Filtered	Black	1000 µl	8× 5 racks, 96 each, blistered	3840	49209-0105

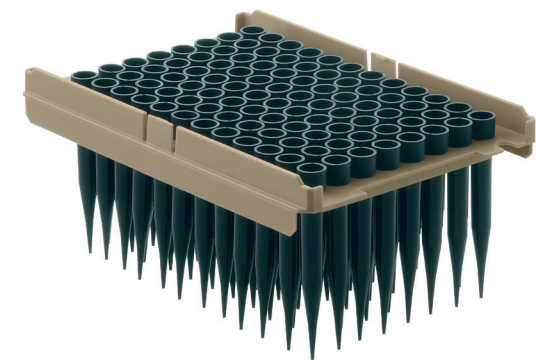
MagNA Pure® is a registered trademark of Roche.

# Type Stratec



Robotic tips for **Stratec** and **other OEM** workstations

Type Stratec is compatible with the following robotic instruments:

- Abbott Diagnostic: en4lisa
- bioMérieux: DaVinci
- Bio-Rad: Evolis
- Biotest: QuickStep
- Dade Behring (Siemens): BEP 2000 Advance
- DiaSorin: ETI-Max 3000
- Euroimmun: Euroimmun Analyzer
- Grifols: Triturus
- Human: Elisys Quattro
- QIAgen: Biorobot 3000, 8000, 9600, 9604, Biorobot universal
- Robimes: Elisia Plus
- Stratec: Gemini
- Virion\Serion: Immunomat TWINsystem



Conductive, 300 µl, tray.

Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
Conductive tips					
					
Non-Filtered	Black	300 µl	18× 10 racks, 96 each, cardboard	17280	49000-0000
Non-Filtered	Black	300 µl	12× 2 racks, 96 each, blistered	2304	49000-0006
					
Non-Filtered	Black	1100 µl	10× 10 racks, 96 each, cardboard	9600	49001-0000
Filtered	Black	1100 µl	12× 2 racks, 96 each, blistered	2304	49001-0106



# Type Dynex

Robotic tips for **Dynex** instruments



Dynex DSX®

For clinical diagnostic as well as for drug discovery, Avantor offers Dynex-compatible robotic tips which are especially developed for automated sample handling. 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.

Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
 Non-Filtered	Blue	300 µl	18× 4 racks, 108 each	432	49136-0000
 Non-Filtered	Clear	1300 µl	18× 4 racks, 108 each	432	49137-0000

DSX® und DS2® are registered trademarks of Dynex Technologies.

# Type Beckman/Olympus


Robotic tips for **diagnostic applications**

Modern healthcare institutes require the highest standards from their diagnostic partners. Avantor developed conductive tips, specially for use in instruments in clinical diagnostics, in order to provide a smooth production flow and high quality patient 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

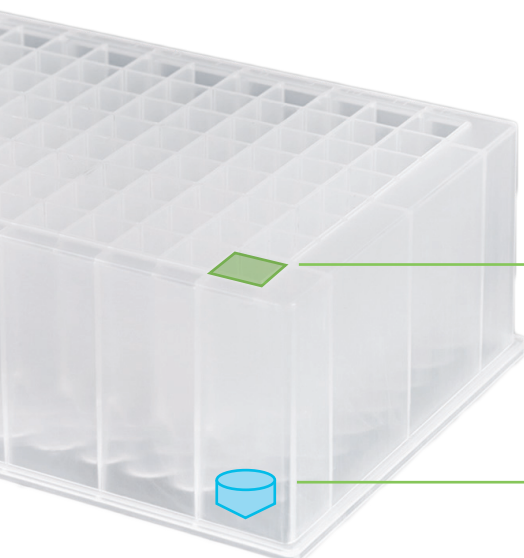


Conductive, 1200 µl, rack.

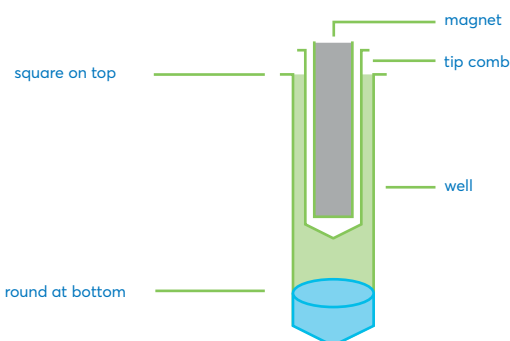
Description	Tip colour	Volume, µl	Packed	Case of	Cat. No.
					
Non-Filtered	Black	1200 µl	10× 8 racks, 140 each, foiled	1120	49044-0000
Filtered	Black	1200 µl	10× 8 racks, 140 each, foiled	1120	49044-0100

# SRW magnetic plates

For cleaning, mixing or centrifugation of samples.  
For storage and preparation of substances.



96 SRW magnetic, 2 ml.



In order to enable a good bioturbation of samples, the square wells become cylindrical at the bottom.

SRW = square round wells

- High resistance towards commonly used chemicals, solvents and alcohols
- High stability also during centrifugation
- 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

SRW magnetic is in line with the SBS standard (Society for Biomolecular Screening). The plate has been especially developed for magnetic separation technology: For the filtration of proteins as well as for DNA extraction, an automated method called magnetic separation is commonly used.

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
- QIAgen: Bio Sprint 96



SRW magnetic tip comb.



SRW magnetic, 0,2 ml.

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

# 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 without lubricants for an immaculate and secure analysis.

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 plate 5 ml, 48 wells

- Total volume: Max. 5,0 ml/well
- Working volume: 50 µl up to 4,9 ml
- Well shaped: V-bottom
- Includes capmat 48 for a leakproof closure

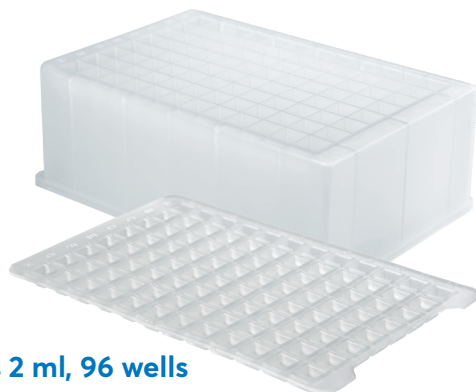


## Square well plates 10 ml, 24 wells

- Total volume: Max. 10,0 ml/well
- Working volume: 50 µl up to 9,9 ml
- Centrally tapered bottom
- Includes capmat 24 for a leakproof closure

## Square well plates 2 ml, 96 wells

- Total volume: Max. 2,5 ml/well
- Working volume: 50 µl up to 2,4 ml
- Well shape: U-bottom
- Includes capmat 96 for a leakproof closure

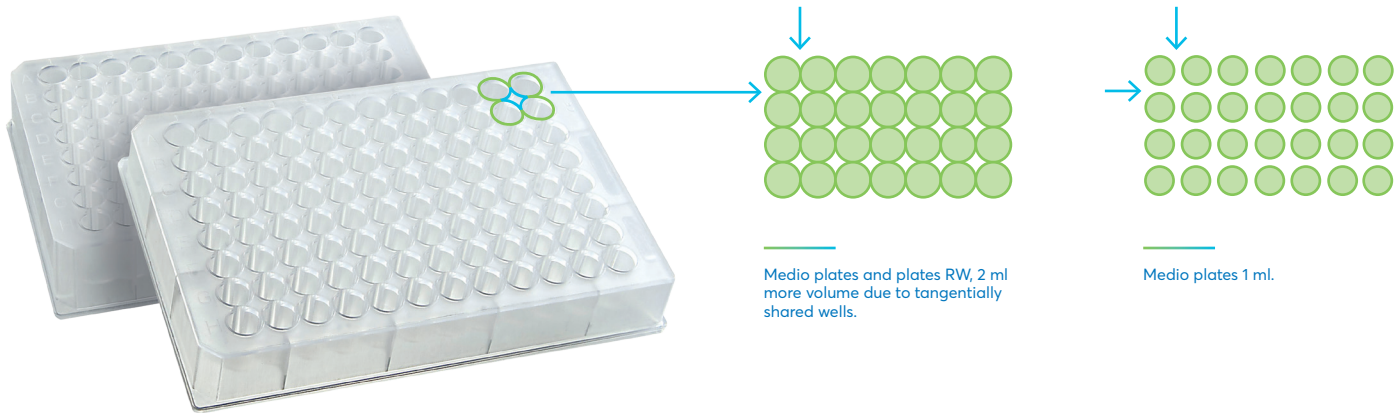


Description	Well volume	Colour	Packed	Cat. No.
24-well plate	10,0 ml	Transparent	20	43001-0066
48-well plate	5,0 ml	Transparent	20	43001-0062
96-well plate	2,0 ml	Transparent	20	43001-0020
<b>Accessories</b>				
Description	Optimal property	Material	Packed	Cat. No.
Capmat for J.T.Baker® Plate Square 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

- 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 1 ml

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

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

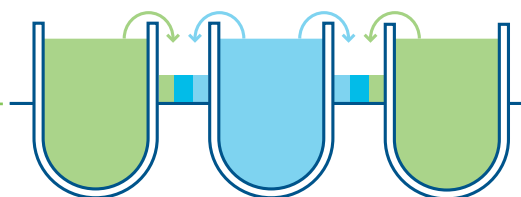


# 96 well plates

Ideal 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
- The standardized dimensions (128.85 mm) ensure compatibility with most common laboratory machines
- 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

## 96-WELL PLATES

Description	Packed	Pieces per pallet	Cat. No.
96-well plate PP, U-bottom, 300 µl/well	64	7168	<b>43001-0600</b>
96-well plate PP, F-bottom, 350 µl/well	100	6000	<b>43001-0122</b>
96-well plate PS, U-bottom, 300 µl/well	100	6000	<b>43001-0117</b>
96-well plate PS, V-bottom, 240 µl/well	100	6000	<b>43001-0118</b>
96-well plate PS, F-bottom, 350 µl/well	100	6000	<b>43001-0119</b>

# 384-well plates

Optimized for smaller volumes



- Available in PP for automated screening and storage systems
- Alphanumeric marking for sample identification
- Round cavities for reduced capillary forces
- 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 and allow better plate closure with adhesive films

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 reduce the risk of cross-contamination and increase the security of heat sealing or sealing with adhesive films
- Optimized footprint according to the SBS standard
- Free from DNase and RNase
- For applications with extreme temperature circumstances like freezing or defrosting in a microwave
- U-shaped well bottom reduces death volume
- Due to the high chemical resistance, ideal for sensitive diagnostic applications



Round wells plus with air escapes and raised rims.

Description	Colour	Well volume	Packed	Cat. No.
PP plates plus	Transparent	1,0 ml	20	43001-0116
PP plates	Transparent	1,0 ml	20	43001-0016
PS plates	Clear	1,0 ml	20	43001-0010

# Dilution Strips SW




Dilution Strips SW

- Strip of 8 wells
- Made of PP

J.T.Baker® dilution strips are compatible to Dynex DSX and DS2.

Description	Packed	Pieces per case	Cat. No.
Dilution Strips SW	250	13500	43001 - 0031



A background image showing a row of microcentrifuge tubes, with one tube in the foreground containing a red liquid, being held by a pipette tip.

# 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.**

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The Avantor logo, featuring a stylized 'A' icon followed by the word 'avantor' in a sans-serif font with a trademark symbol.

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