

La-Pha-Pack

Well Plates for Chromatography

High density sample
handling products

**Standard
Well Plates**



**Certified
Well Plates**



**High
Performance
Well Plates**



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Innovative Solutions for High Density Sample Handling

Organic solvents have always created challenges for the chromatographer. Needed to extract compounds of interest from samples, organic solvents as eluents do not have to be problematic. Typically, sample containers have been individual glass vials with closures that provide a resistant surface to the organic eluent, thus maintaining sample integrity. The closure possesses a soft, piercable, resealing layer to allow reliable aliquot removal without opening the container, thereby preserving a stable sample environment. There can be significant differences in the solvent characteristics of GC and HPLC methods.



The La-Pha-Pack WebSeal™ system presents a new range of well plates which meet the requirements of today's chromatographer using well plate compatible autosamplers. It provides all of the advantages of sample handling using plates, the security of achieving reliable results along with decades of experience from the market leader in sample containers for chromatography. The WebSeal™ system is a comprehensive range of polypropylene well plates and seals that can be used for different types of analytical challenges and all types of chromatographic applications. For maximum solvent compatibility a wide range of options for plates employing glass inserts are offered.

Features:

- The first complete and chromatography tested portfolio of well plates for separations science applications.
- Prepare and analyze samples in less time with less lab bench space and storage space required per sample.
- Easier and quicker filling and sealing process using multi-channel pipetting tools.
- Efficient transport of many samples in a single plate.
- SBS/ANSI standard footprint assures compatibility with all well plate capable prep stations and chromatography autosamplers.



La-Pha-Pack Well Plates for Chromatography

The La-Pha-Pack WebSeal™ system is a comprehensive range of PP well plates with or without glass inserts and sealing mats. This chapter of the catalog should help to decide, whether well plates are an option to glass or plastic vials as sample container for chromatography applications and if yes: which product to choose.

In order to give a qualified recommendation here, four critical questions about the application have to be answered:

Is the autosampler equipped to handle well plates? (autosampler compatibility)

Modern autosamplers offer racks and handling systems for well plates in order to:

- Handle more samples in less time and space
- Improve the workflow for large numbers of samples
- Provide a compact sample container system to conserve precious laboratory bench space
- Provide low volume/high recovery sampling
 - The design of our chromatography well plates adheres to the ANSI/SBS footprint specifications. The standards set the most important dimensions with tolerances for 96-well and 384-well microplates. ANSI: American National Standards Institute
SBS: Society for Biomolecular Sciences
 - The ANSI/SBS standards do not specify height requirements for wellplates. Adequate clearance should be verified when selecting a plate.
 - The internal well profile allows processing of small volumes but the correct profile must be selected flat-, U- or V-profile)
 - Chimney style walls are resistant to solvent “wicking” to reduce cross contamination between wells.

Which product is the right one for the application?

- Basic plates, economical, but limited solvent compatibility**
- Mid range plates, CERTIFIED, good solvent compatibility**
- Premium plates, excellent solvent stability, inert, “like a glass vial” pershapeance**

La-Pha-Pack presents a new range of well plates which exactly meets the requirements of today's chromatographer using an autosampler for plates. All the advantages of sample handling via a plate are combined with the security of proven materials for reliable results and the experience of decades as the market leader in autosampler vials & closures. Our plate portfolio contains products for every type of application and offers solutions from a simple standard routine analysis up to very special and challenging sample handling problems.

Why go with less than a product from the market leader in vials & closures? We offer:

- Plates and seals for standard and routine applications, chromatography tested, made from resins which show excellent HPLC solvent resistance and low background noise, especially with polar solvents
- CERTIFIED plates and seals for reliable analysis, the new industrial standard for chromatography plates, lowest background, lowest extractable rates, supported and certified by our rigorous testing program with our best and established sealing mats.
- Glass covered PP plates, where an inert surface is required, for minimized sample adsorption on the plastic wall and constant quantification results from cavity to cavity, independent from the type of analyte.
- Plates with glass inserts for convenient “like a glass vial” pershapeance, with all the benefits and quality features you know from your “normal autosampler vial”. Here you have the choice of a well plates with glass inserts sealed by our highest quality mats or glass vials with individual closures contained in their own transport “rack” and ready to use.

Is the sample compatible with the well plate material? (solvent compatibility and stability)

There are several points to consider when selecting the material for a sample container to be used for HPLC and/or GC analysis?

The container of choice has to be:

- Inert to the solvent and sample
- Adds nothing to the sample due to extraction or contamination
- Can be sealed to prevent evaporation of solvent and sample Glass inserts are resistant to all organic solvents, stable at temperatures over 350°C, have high clarity, extremely low organic extractable profile and structural rigidity, but:
 - Strong acids may extract ions from the glass by a process of hydrolytic extraction
 - Although structurally rigid the glass is sensitive to shock and abrupt temperature changes, causing the glass to crack. Polypropylene is seen as the plastic material of choice when storing liquid samples in aqueous/organic mixtures due to its wide chemical compatibility with alcohols, acetonitrile and other common HPLC solvents
 - Plastic Additives and mold release agents may be used in products not designed for chromatography. These added compounds can be sources of contamination in sensitive methods.

Are seals for plates available, which meet the requirements? (cross contamination, evaporation rates, piercability)

Chromatography predominantly requires organic solvents as the eluent or solvent for the samples. Therefore the container of choice was for decades a glass vial with a closure, which provides on the sample side an inert surface (normally fluorinated) for sample integrity and on the other hand a soft, piercable rigidity for simple and reliable needle handling (often silicone). The techniques vary in requirements with the major differences in sample handling being between gas chromatography and liquid chromatography.

- Tapes and adhesive foils are an economical alternative for standard applications with a limited contamination risk from the glue shapeulation. These products do not reseal after initial puncture and are not suitable for use with highly volatile solvents or for repeated injections.
- WebSeal mats are made of chromatography proven silicone available with or without PTFE surface treatment for an inert and secure seal of the plates. For better piercability and in order to meet the pershapeance requirements of some autosampler injection systems they are available pre-slit as well.
- For applications requiring a sealing mat, select the microplate product that best fits your sample size, find the diameter of the wells and select a mat with plugs of the same diameter.



La-Pha-Pack Sealmats – WebSeals – Well Plates

(plastic, non coated, non sterile, chromatography tested)

- Polypropylene microplates are manufactured from a GC tested material
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80°C to $+121^{\circ}\text{C}$
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery



Blocks, Mats and Tapes for water, water & polar solvents, polar solvents; for simple applications; high sample concentrations; non regulated labs; MS single ion mode

96 Well - Micro-Well-Plate, PP, 8mm diameter, round opening

(chromatography tested, non coated, non sterile)

| Article No. | 08 05 2898 | 08 05 2900 | 08 05 2901 |
|--------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| Description | Micro Well Microplate, round opening, 96 position | Micro Well Microplate, round opening, 96 position | Deep Well Microplate, round opening, 96 position |
| Material | PP | PP | PP |
| Height (mm) | 14,4 | 31,6 | 44 |
| Shape | V-shape, 8mm diameter | U-shape, 8mm diameter | U-shape, 8mm diameter |
| TFVol. (μl) | 450 | 1300 | 2000 |
| MWVol. (μl) | 10-400 | 50-1000 | 50-2000 |
| Packaging | 20 pieces | 5 pieces | 5 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVol. = Minimum Working Volume (μl)



Sealmats (Webseals) Block Cover, non sterile

(for 08 05 2898, 08 05 2900 and 08 05 2901)

| Article No. | 08 29 2929 | 08 29 2930 | 08 29 2931 |
|-------------|-------------------------|-------------------------|-------------------------|
| Description | Sealmat (Block Cover) | Sealmat (Block Cover) | Sealmat (Block Cover) |
| Color | clear | blue | blue |
| Material | EVA | Silicone/PTFE | Silicone/PTFE, slit |
| Shape | round, for 8mm diameter | round, for 8mm diameter | round, for 8mm diameter |
| Packaging | 5 pieces | 5 pieces | 5 pieces |

Sealing Tapes, non steril for 08 05 2898, 08 05 2899, 08 05 2900, 08 05 2901) you will find on page 5.

La-Pha-Pack Sealmats – WebSeals – Well Plates (plastic, non coated, non sterile, chromatography tested)

Blocks, Mats and Tapes for water, water & polar solvents, polar solvents; for simple applications; high sample concentrations; non regulated labs; MS single ion mode

96 Well - Square Well Microplates, PP, square opening (chromatography tested ,non coated, non sterile)

Sealmats (Webseals) Block Cover, non sterile (for 08 05 2902)



| Article No. | 08 05 2902 |
|-------------|-----------------------------------------------------|
| Description | Square Well Microplate, square opening, 96 position |
| Material | PP (-196°C to +121°C) |
| Height (mm) | 44 |
| shape | V-shape |
| TFVol. (µl) | 2000 |
| MWVol. (µl) | 50-1900 |
| Packaging | 5 pieces |



| Article No. | 08 29 2939 | 08 29 2941 |
|-------------|---------------------------------|---------------------------------|
| Description | Sealmat - Webseal (Block Cover) | Sealmat - Webseal (Block Cover) |
| Color | clear | clear |
| Material | Silicone | Silicone, slit |
| shape | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVol. = Minimum Working Volume (µl)

La-Pha-Pack Sealmats – WebSeals – Well Plates (plastic, non coated, non sterile, chromatography tested)

Blocks, Mats and Tapes for water, water & polar solvents, polar solvents; for simple applications; high sample concentrations; non regulated labs; MS single ion mode

384 Well – Deep Well Microplate, PP, square opening (chromatography tested ,non coated, non sterile)

| Article No. | 08 05 2904 | 08 05 2906 |
|-------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| Description | Deep Well Microplate square opening (Square Well), 384 Positionen | Deep Well Microplate square opening (Square Well), 384 Positionen |
| Material | PP | PP |
| Height (mm) | 22 | 14,4 |
| shape | U-shape | V-shape |
| TFVol. (µl) | 252 | 145 |
| MWVol. (µl) | 5 - 240 | 4 - 120 |
| Packaging | 5 pieces | 10 pieces |

TFVol. = Total Volume/Filling Volume (ml), MWVol. = Minimum Working Volume (µl)



Sealmats (Webseals) Block Cover, non sterile (for 08 05 2904, 08 05 2905, 08 05 2906)

| Article No. | 08 29 2943 | 08 29 2950 |
|-------------|--------------------------------|---------------------------------|
| Description | Sealmat - Webseal(Block Cover) | Sealmat – Webseal (Block Cover) |
| Color | clear | clear |
| Material | Silicone | Silicone, slit |
| shape | 384 Pos., square (Square Well) | 384 Pos., square (Square Well) |
| Packaging | 5 pieces | 5 pieces |

Sealing Tapes, non steril

(for 08 05 2898, 08 05 2899, 08 05 2900, 08 05 2901, 08 05 2902, 08 058 2904, 08 05 2905, 08 05 2906)

| Article No. | 08 29 2945 | 08 29 2946 | 08 29 2947 | 08 29 3027 | 08 29 3028 |
|-------------|--------------|---------------|--------------------|----------------------|------------------|
| Description | Sealing Tape | Sealing Tape | Sealing Tape | Sealing Tape | Sealing Tape |
| Color | clear | clear | silber | clear | clear |
| Material | PE/Silicone | PES/Silicone | Aluminium/Silicone | Polyolefin/Kautschuk | PET/Silicone/PET |
| Temperature | -40°C – 90°C | -70°C – 100°C | -80°C – 120°C | | |
| Packaging | 100 pieces | 100 pieces | 100 pieces | 100 pieces | 100 pieces |

La-Pha-Pack Sealmats – WebSeals – Well Plates

CERTIFIED (plastic, non coated, non sterile)

- Polypropylene microplates are manufactured from ultra low bleed high purity basis resin
- Plates are fully LOT tested by GC/MS for organic extractables
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80° C to +121°C
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery



Blocks, Mats and Tapes for water, water & polar solvents, polar solvents; for sensitive applications; lower sample concentrations; regulated labs; TIC and full chromatograms

96 Well - Micro-Well-Plate, PP, 7mm diameter, round opening, **CERTIFIED** (non coated, non sterile)

| Article No. | 08 05 2924 | 08 05 2925 | 08 05 2926 | 08 05 2920 |
|--------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| Description | Micro Well Microplate, round opening, 96 position | Micro Well Microplate, round opening, 96 position | Micro Well Microplate, round opening, 96 position | Deep Well Microplate, round opening, 96 position |
| Material | PP | PP | PP | PP |
| Height (mm) | 14,7 | 14,7 | 14,7 | 41,6 |
| shape | flat bottom, 7mm diameter | U-shape, 7mm diameter | V-shape, 7mm diameter | U-shape, 7mm diameter |
| TFVol. (µl) | 350 | 270 | 220 | 1000 |
| MWVVol. (µl) | 10-300 | 10-250 | 10-190 | 50-900 |
| Packaging | 10 pieces | 10 pieces | 10 pieces | 10 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVVol. = Minimum Working Volume (µl)



Sealmats (Webseals) Block Cover, Silicone, non sterile (for 08 05 2924, 08 05 2925, 08 05 2926 and 08 05 2920)

| Article No. | 08 29 2949 | 08 29 2935 |
|-------------|---------------------------------|---------------------------------|
| Description | Sealmat - Webseal (Block Cover) | Sealmat - Webseal (Block Cover) |
| Color | clear | clear |
| Material | Silicone | Silicone, slit |
| shape | round, flat base, step | Round, flat base, step |
| Packaging | 5 pieces | 5 pieces |



La-Pha-Pack Sealmats – WebSeals – Well Plates

CERTIFIED (plastic, non coated, non sterile)

Blocks, Mats and Tapes for water, water & polar solvents, polar solvents; for sensitive applications; lower sample concentrations; regulated labs; TIC and full chromatograms

Sealmats (Webseals) Block Cover, Silicone/PTFE. non sterile (for 08 05 2924, 08 05 2925, 08 05 2926 and 08 05 2920)

| Article No. | 08 29 2933 | 08 29 2934 |
|-------------|---------------------------------|---------------------------------|
| Description | Sealmat - Webseal (Block Cover) | Sealmat - Webseal (Block Cover) |
| Color | blue | blue |
| Material | Silicone/PTFE (flat base) | Silicone/PTFE, slit (flat base) |
| shape | round, 7mm diameter | round, 7mm diameter |
| Packaging | 5 pieces | 5 pieces |

96 Well - Square Well Microplates, Sealmats (Webseals) Block Cover, non sterile PP, square opening, **CERTIFIED** (non coated, non sterile) (for 08 05 2921)

| Article No. | 08 05 2921 |
|-------------|---------------------------------------------------|
| Description | Square Well Microplate square opening 96 position |
| Material | PP |
| Height (mm) | 44,4 |
| shape | V-shape |
| TFVol. (µl) | 2000 |
| MWVol. (µl) | 50-1900 |
| Packaging | 5 pieces |



| Article No. | 08 29 2939 | 08 29 2941 |
|-------------|----------------------|----------------------|
| Description | Sealmat (Webseal) | Sealmat (Webseal) |
| Color | clear | clear |
| Material | Silicone | Silicone, slit |
| shape | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces |

| Article No. | 08 29 2938 | 08 29 2940 |
|-------------|----------------------|----------------------|
| Description | Sealmat (Webseal) | Sealmat (Webseal) |
| Color | blue | blue |
| Material | Silicone/PTFE | Silicone/PTFE, slit |
| shape | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVol. = Minimum Working Volume (µl)

La-Pha-Pack Sealmats – WebSeals – Well Plates

CERTIFIED (plastic, non coated, non sterile)

Blocks, Mats and Tapes for water, water & polar solvents, polar solvents; for sensitive applications; lower sample concentrations; regulated labs; TIC and full chromatograms

384 Well – MicroWell Microplate, PP, square opening, **CERTIFIED** (non coated, non sterile)

| Article No. | 08 05 2922 | 08 05 2923 |
|-------------|----------------------------------------------------|----------------------------------------------------|
| Description | MicroWell Microplate square opening 384 Positionen | MicroWell Microplate square opening 384 Positionen |
| Material | PP | PP |
| Height (mm) | 14,4 | 30,2 |
| shape | U-shape, square | V-shape, square |
| TFVol. (µl) | 58 | |
| MWVol. (µl) | 2 - 35 | 5 - 240 |
| Packaging | 10 pieces | 6 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVol. = Minimum Working Volume (µl)



Sealmats (Webseals) Block Cover, non sterile (for 08 05 2922 and 08 05 2923)

| Article No. | 08 29 2943 | 08 29 2950 | 08 29 2942 | 08 29 2944 |
|-------------|----------------------|----------------------|----------------------|----------------------|
| Description | Sealmat (Webseal) | Sealmat (Webseal) | Sealmat (Webseal) | Sealmat (Webseal) |
| Color | clear | clear | blue | blue |
| Material | Silicone | Silicone, slit | Silicone/PTFE | Silicone/PTFE, slit |
| Shape | square (Square Well) | square (Square Well) | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces | 5 pieces | 5 pieces |

Sealing Tapes, non sterile

(for 08 05 2924, 08 05 2925, 08 05 2926 and 08 05 2920, 8 05 2921, 08 05 2922, 08 05 2923)

| Article No. | 08 29 2945 | 08 29 2946 | 08 29 2947 | 08 29 3027 | 08 29 3028 |
|-------------------------|--------------|---------------|--------------------|----------------------|------------------|
| Description | Sealing Tape | Sealing Tape | Sealing Tape | Sealing Tape | Sealing Tape |
| Color | clear | clear | silber | clear | clear |
| Material | PE/Silicone | PES/Silicone | Aluminium/Silicone | Polyolefin/Kautschuk | PET/Silicone/PET |
| Temperaturbeständigkeit | -40°C – 90°C | -70°C – 100°C | -80°C – 120°C | | |
| Packaging | 100 pieces | 100 pieces | 100 pieces | 100 pieces | 100 pieces |

La-Pha-Pack Glass Coated Microplates and Sealmats – WebSeals (chromatography tested ,non sterile)

- High quality polypropylene microplates coated with 200nm thick layer of silicone dioxide
- Plate+ provides microplates with a chemical resistance similar to glass while retaining the advantages of polypropylene
- Eliminates the need to use glass limited volume inserts
- Excellent for applications where plastic microplates are not applicable
- Plate+ is chemically and thermally resistant and will tolerate temperatures from -80°C to +80°C
- Lightweight, precision molded, cost-effective alternative to solid glass plates

Blocks, Mats and Tapes all solvents (incl. non-polar); for very sensitive applications; lowest sample concentrations; regulated labs; hydrophobic samples (Proteins); MSCERT level

96 Well - Micro-Well-Plate, glass coated , round opening (chromatographisch getestet, non sterile)

96 Well – Deep Well Microplate glass coated , round opening

| |  |  |  | |  |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|
| Article No. | 08 05 2927 | 08 05 2914 | 08 05 2915 | Article No. | 08 05 2916 |
| Description | Micro Well Microplate, round opening, 96 position | Micro Well Microplate, round opening, 96 position | Micro Well Microplate, round opening, 96 position | Description | Deep Well Microplate, round opening, 96 position |
| Material | PP, glass coated | PP, glass coated | PP, glass coated | Material | PP, glass coated |
| Height (mm) | 14,6 | 14,6 | 14,6 | Height (mm) | 41,5 |
| Shape | U-shape, 7mm diameter | V-shape, 7mm diameter | flat bottom, 7mm diameter | Shape | U-shape, 7mm diameter |
| TFVol. (µl) | 300 | 220 | 370 | TFVol. (µl) | 1,2ml |
| MWVol. (µl) | 250 | 190 | 300 | MWVol. (µl) | 1ml |
| Packaging | 10 pieces | 10 pieces | 10 pieces | Packaging | 10 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVol. = Minimum Working Volume (µl)



Sealmats (Webseals) Block Cover, Silicone, non sterile (for 08 05 2927, 08 05 2914, 08 05 2915, 08 05 2916)

| |  |  |
|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Article No. | 08 29 2949 | 08 29 2935 |
| Description | Sealmat - Webseal (Block Cover) | Sealmat - Webseal (Block Cover) |
| Color | clear | clear |
| Material | Silicone | Silicone, slit |
| Shape | round, flat base | round |
| Packaging | 5 pieces | 5 pieces |



La-Pha-Pack Glass Coated Microplates and Sealmats – WebSeals (chromatography tested ,non sterile)

Blocks, Mats and Tapes all solvents (incl. non-polar); for very sensitive applications; lowest sample concentrations; regulated labs; hydrophobic samples (Proteins); MSCERT level

Sealmats (Webseals) Block Cover, Silicone/PTFE. non sterile

(for 08 05 2927, 08 05 2914, 08 05 2915, 08 05 2916)

| Article No. | 08 29 2933 | 08 29 2934 |
|-------------|---------------------------------|---------------------------------|
| Description | Sealmat - Webseal (Block Cover) | Sealmat - Webseal (Block Cover) |
| Color | blue | blue |
| Material | Silicone/PTFE | Silicone/PTFE, slit |
| Shape | round, flat base | round, flat base |
| Packaging | 5 pieces | 5 pieces |

96 Well - Micro-Well-Plate, glass coated , square opening (non sterile)

| Article No. | 08 05 2917 |
|-------------|--------------------------------------------------|
| Description | Square Well Microplate round opening 96 position |
| Material | PP, glass coated |
| Height (mm) | 44 |
| Shape | V-shape |
| TFVol. (µl) | 2,4ml |
| MWVol. (µl) | 2ml |
| Packaging | 10 pieces |

Sealmats (Webseals) Block Cover, non sterile (for 08 05 2917)

| Article No. | 08 29 2939 | 08 29 2941 |
|-------------|----------------------|----------------------|
| Description | Sealmat (Webseal) | Sealmat (Webseal) |
| Color | clear | clear |
| Material | Silicone | Silicone, slit |
| Shape | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces |



| Article No. | 08 29 2938 | 08 29 2940 |
|-------------|----------------------|----------------------|
| Description | Sealmat (Webseal) | Sealmat (Webseal) |
| Color | blue | blue |
| Material | Silicone/PTFE | Silicone/PTFE, slit |
| Shape | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces |

TFVol. = Total Volume/Filling Volume (ml),
MWVol. = Minimum Working Volume (µl)

La-Pha-Pack Glass Coated Microplates and Sealmats – WebSeals (chromatography tested ,non sterile)

Blocks, Mats and Tapes all solvents (incl. non-polar); for very sensitive applications; lowest sample concentrations; regulated labs; hydrophobic samples (Proteins); MSCERT level

384 Well – MicroWell Microplate, glass coated , square opening (chromatographisch getestet, non sterile)

| |  |  |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Article No. | 08 05 2918 | 08 05 2919 |
| Description | MicroWell Microplate square opening, 384 Positionen | MicroWell Microplate square opening, 384 Positionen |
| Material | PP, glass coated | PP, glass coated |
| Height (mm) | 14,4 | 22 |
| Shape | square (Square Well) | square (Square Well) |
| TFVol. (µl) | 120µl | 240µl |
| MWVol. (µl) | 90µl | 180µl |
| Packaging | 10 pieces | 6 pieces |

TFVol. = Total Volume/Filling Volume (ml), MWVol. = Minimum Working Volume (µl)



Sealmats (Webseals) Block Cover, non sterile (for 08 05 2918, 08 05 2919)

| |  |  |  |  |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Article No. | 08 29 2943 | 08 29 2950 | 08 29 2942 | 08 29 2944 |
| Description | Sealmat (Webseal) | Sealmat (Webseal) | Sealmat (Webseal) | Sealmat (Webseal) |
| Color | clear | clear | blue | blue |
| Material | Silicone | Silicone, slit | Silicone/PTFE | Silicone/PTFE, slit |
| Shape | square (Square Well) | square (Square Well) | square (Square Well) | square (Square Well) |
| Packaging | 5 pieces | 5 pieces | 5 pieces | 5 pieces |

Sealing Tapes, non sterile

(for 08 05 2927, 08 05 2914, 08 05 2915, 08 05 2916, 08 05 2917, 08 05 2918, 08 05 2919)

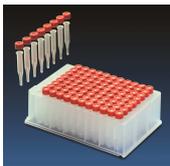
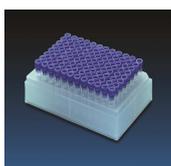
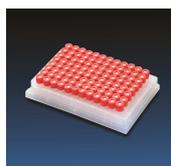
| Article No. | 08 29 2945 | 08 29 2946 | 08 29 2947 | 08 29 3027 | 08 29 3028 |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Description | Sealing Tape |
| Color | clear | clear | silver | clear | clear |
| Material | PE/Silicone | PES/Silicone | Aluminum/Silicone | Polyolefin/Rubber | PET/Silicone/PET |
| Temperature | -40°C – 90°C | -70°C – 100°C | -80°C – 120°C | | |
| Packaging | 100 pieces |

La-Pha-Pack - 96 Position Block Systems with Glass Inserts

- 96 Position Block Systems (RITTER) with Glass Inserts are used in combinatorial chemistry when the pure PP Block is not inert enough.
- These Inserts that are custom-tailored to fit a broad variety of 96 Well Blocks of Messrs. RITTER can either be sealed individually with a PE Cap Seal or over the whole block with a Sealmat block cover.
- The products can be obtained as individual components or as completely assembled, ready-to-use convenience blocks.

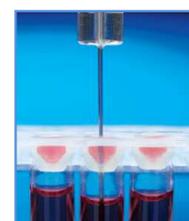
Blocks, Mats and Tapes
all solvents (incl. non-polar);
for very sensitive applications;
lowest sample concentrations;
regulated labs; hydrophobic
samples (Proteins);
MSCERT level

96 position Block Systems with Glass Inserts, sealed individually (chromatographisch getestet, non sterile)

| |  |  |  |  |
|----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Article No. | 08 20 0897 | 08 20 0911 | 08 20 0905 | 08 20 0943 |
| Description | Deep Well Block 96 position | Square Well Block 96 position | Micro-Tube-Rack-System 96 position | Microtiter-Plate 96 position |
| Material | PP | PP | PP | PP |
| | filled with | filled with | filled with | filled with |
| Description | 0,35ml Micro-Insert | 0,35ml Micro-Insert | 0,8ml Micro-Insert | 0,1ml Micro-Insert |
| Material | clear glass | clear glass | clear glass | clear glass |
| Abmessung (mm) | 42,5 x 6 | 49,9 x 7,6 | 40x 7,6 | 15,5 x 5,7 |
| shape | Conical bottom | rounder bottom | U-shap bottom | flat bottom |
| TFVol. (µl) | 410 | 410 | 1200 | 230 |
| MWVVol. (µl) | 350 | 350 | 1000 | 200 |
| | assembled with | assembled with | assembled with | assembled with |
| Description | 9mm PE Cap, red, 4mm hole, Silicone white/PTFE red, 45° shore A, 1,9mm, slit | 9mm PE Cap, red, 4mm hole, Silicone white/PTFE red, 45° shore A, 1,9mm, slit | 8mm PE-Plug blue | 9mm PE Cap, red, 4mm hole, Silicone white/PTFE red, 45° shore A, 1,9mm, slit |
| Packaging | 1 pieces | 1 pieces | 1 pieces | 1 pieces |

96 Position Block Systems with Glass Inserts, sealed with a Sealmat Block Cover

- Sealmat Block covers are made out of Silicone and laminated with a deep-drawn PTFE-Film – like a septa. By laminating the cover with a PTFE-Film instead of spraying it with PTFE it is ensured that a continuous and homogeneous barrier protects the sample from any contamination before, during and after the penetration process.



| Article No. | 08 20 1171 | 08 20 1181 | 08 20 1182 |
|----------------|---------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|
| Description | Square Well Block 96 position | Square Well Block 96 position | Square Well Block 96 position |
| Material | PP | PP | PP |
| | filled with | filled with | filled with |
| Description | 1ml Micro-Insert, clear glass | 1ml Micro-Insert, clear glass | 1ml Micro-Insert, clear glass |
| Abmessung (mm) | 45 x 7,6 | 45 x 7,6 | 45 x 7,6 |
| Shape | 8mm top | 8mm top | 8mm top |
| | assembled with | assembled with | assembled with |
| Description | Sealmat Block Cover (welled plugs for easy penetration) | Sealmat Block Cover (welled plugs + slit for pipettes) | Sealmat Block Cover (solid plugs for sample storage) |
| Packaging | 1 pieces | 1 pieces | 1 pieces |