



To achieve consistent, reproducible results when handling liquids in the laboratory, reliable dispensers and pipette tips are essential. With high quality materials and pipetting solutions, maximum precision can be achieved while reducing the consumption of reagents and time. Comfortable and fatigue-free working is also crucial for everyday laboratory life.



## LIQUID HANDLING

|   |   |     |
|---|---|-----|
| / | Sapphire Pipettes .....                   | 150 |
|   | Single-Channel Pipettes .....             | 151 |
|   | Multi-Channel Pipettes .....              | 151 |
|   | Pipette Carrousel .....                   | 152 |
|   | Pipette Carrousel .....                   | 152 |
| / | Sapphire Pipette Tips .....               | 153 |
|   | Pipette Tips 10 µl .....                  | 154 |
|   | Pipette Tips 10 µl extended .....         | 155 |
|   | Filter Tips 20 µl .....                   | 156 |
|   | Filter Tips 100 µl .....                  | 156 |
|   | Pipette Tips 200 µl .....                 | 157 |
|   | Pipette Tips 300 µl .....                 | 158 |
|   | Pipette Tips 1000 µl .....                | 159 |
|   | Pipette Tips 1250 µl .....                | 160 |
|   | Racks (unfilled) .....                    | 161 |
|   | Macro Pipette Tip 1-5 ml .....            | 161 |
| / | CELLSTAR® Serological Pipettes .....      | 162 |
|   | Serological Pipettes .....                | 163 |
|   | Serological Pipettes Triple-packed .....  | 164 |
|   | Serological Pipettes Special Models ..... | 164 |
|   | MaxiPette .....                           | 165 |
|   | Pasteur / Serum Pipettes .....            | 165 |



/ Watch our video:



## SAPPHIRE PIPETTES

**Sapphire pipettes are a variable volume range of air-displacement pipettes designed and built to deliver optimal performance, ergonomics, and robustness in day-to-day use.**

The lightweight design coupled with a state-of-the-art mechanism reduces pipetting forces and makes our pipettes both comfortable and easy-to-use. The contoured body shape allows for a relaxed grip whatever size your hand, and the 3-position tip ejector button makes

pipetting comfortable for both left-handed and right-handed users. The colour-coded push button allows for easier identification of the relevant tips.

Sapphire pipettes provide an excellent performance within ISO 8655 which is considered the basis for determining the accuracy and precision of air-displacement pipettes. In combination with Sapphire pipette tips they show one of the lowest error tolerances on the market. All Sapphire pipettes are fully autoclavable.

- / Outstanding accuracy and precision
- / Ergonomic design and minimal pipetting forces for a new level of comfort
- / Lightweight, robust and fully autoclavable
- / Digital volume setting
- / Colour-coded for tip identification



### Single-Channel Pipettes

- / Light and comfortable design
- / Low pipetting forces for ease of use
- / Digital volume setting
- / Colour-coded for tip identification
- / 5 ml & 10 ml pipettes without ejector lever
- / Fully autoclavable

Description: single-channel pipette

| Item no. | Colour code  | Volume range      | Qty. inner / outer |
|----------|--------------|-------------------|--------------------|
| 89000002 | orange       | 0.2 - 2 µl        | 1 / 1              |
| 89000010 | red          | 1 - 10 µl         | 1 / 1              |
| 89000020 | light yellow | 2 - 20 µl         | 1 / 1              |
| 89000100 | pink         | 10 - 100 µl       | 1 / 1              |
| 89000200 | yellow       | 20 - 200 µl       | 1 / 1              |
| 89001000 | blue         | 100 - 1,000 µl    | 1 / 1              |
| 89000500 | violet       | 500 - 5,000 µl    | 1 / 1              |
| 89010000 | light blue   | 1,000 - 10,000 µl | 1 / 1              |

/ Spare parts and other accessories available on request



### Multi-Channel Pipettes

- / Light and comfortable design
- / Low pipetting forces for ease of use
- / Digital volume setting
- / Colour-coded for tip identification
- / Optimised for use with Greiner Bio-One tips
- / Fully autoclavable

| Item no. | Description       | Colour code  | Volume range | Qty. inner / outer |
|----------|-------------------|--------------|--------------|--------------------|
| 89000810 | 8-channel pipette | red          | 0.5 - 10 µl  | 1 / 1              |
| 89000820 | 8-channel pipette | light yellow | 2 - 20 µl    | 1 / 1              |
| 89008200 | 8-channel pipette | yellow       | 20 - 200 µl  | 1 / 1              |
| 89008300 | 8-channel pipette | green        | 20 - 300 µl  | 1 / 1              |

| Item no. | Description        | Colour code    | Volume range | Qty. inner / outer |
|----------|--------------------|----------------|--------------|--------------------|
| 89001210 | 12-channel pipette | ● red          | 0.5 - 10 µl  | 1 / 1              |
| 89001220 | 12-channel pipette | ● light yellow | 2 - 20 µl    | 1 / 1              |
| 89012200 | 12-channel pipette | ● yellow       | 20 - 200 µl  | 1 / 1              |
| 89012300 | 12-channel pipette | ● green        | 20 - 300 µl  | 1 / 1              |

/ Spare parts and other accessories available on request



### Pipette Carrousel

- / Holds up to 7 pipettes
- / Robust and space-saving
- / Holds single and multi-channel pipettes

| Item no. | Qty. inner / outer |
|----------|--------------------|
| 89000099 | 1 / 1              |



/ Watch our video:



## SAPPHIRE PIPETTE TIPS

- / Fully automated production and packaging
- / Universal fit for all common pipettes
- / Tips and racks are autoclavable
- / Coloured box inserts for easy volume identification
- / Low retention surface properties for high recovery rate and maximum precision

We understand that flexibility is critical in terms of modern liquid handling solutions. This is why the Sapphire tips are manufactured in eight different sizes in a volume range from 10  $\mu$ l to 1250  $\mu$ l, including an extended length 10  $\mu$ l tip for the recovery of small sample volumes.

All our tips are made of medi-

cal grade polypropylene and are available as standard, low-retention, filter or low-retention filter tips.

Depending on the format, Sapphire pipette tips are packed in racks, bulk or refill units. Sapphire tips and pipettes when used together provide a fully optimised and harmonised liquid handling solution.



### Pipette Tips

10 µl

- / Universal fit for all common pipettes
- / Tips (without filter) and racks are autoclavable
- / Easy-to-read graduation
- / Colour-coded for tip identification

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase



Raw material: PP, Volume range: 0.2 - 10 µl, Nominal volume: 10 µl, Matching rack: 770310

| Item no. | Feature              | Product colour | Box insert colour | Type of packaging | Sterile | Qty. inner / outer |
|----------|----------------------|----------------|-------------------|-------------------|---------|--------------------|
| 771350   | standard             | ○ natural      | ● red             | bag               |         | 1,000 / 10,000     |
| 771351   | standard             | ○ natural      | ● red             | rack              |         | 960 / 5,760        |
| 771352   | standard             | ○ natural      | ● red             | rack              | +       | 960 / 5,760        |
| 771354   | standard             | ○ natural      | ● red             | refill            |         | 960 / 4,800        |
| 771355   | standard             | ○ natural      | ● red             | refill            | +       | 960 / 4,800        |
| 771361   | low retention        | ○ natural      | ● red             | rack              |         | 960 / 5,760        |
| 771362   | low retention        | ○ natural      | ● red             | rack              | +       | 960 / 5,760        |
| 771364   | low retention        | ○ natural      | ● red             | refill            |         | 960 / 4,800        |
| 771365   | low retention        | ○ natural      | ● red             | refill            | +       | 960 / 4,800        |
| 771353   | filter               | ○ natural      | ● red             | rack              | +       | 960 / 5,760        |
| 771363   | low retention filter | ○ natural      | ● red             | rack              | +       | 960 / 5,760        |



**Pipette Tips**  
**10 µl extended**

- / Extended 10 µl tip for better recovery of small sample volumes
- / Universal fit for all common pipettes
- / Tips (without filter) and racks are autoclavable
- / Easy-to-read graduation

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
cytotoxic

 non-  
pyrogenic

 PCR



Raw material: PP, Volume range: 0.1 - 10 µl, Nominal volume: 10 µl, Matching rack: 770310

| Item no. | Feature              | Product colour | Box insert colour | Type of packaging | Sterile | Qty. inner / outer |
|----------|----------------------|----------------|-------------------|-------------------|---------|--------------------|
| 772350   | standard             | ○ natural      | ● red             | bag               |         | 1.000 / 5.000      |
| 772351   | standard             | ○ natural      | ● red             | rack              |         | 960 / 5.760        |
| 772352   | standard             | ○ natural      | ● red             | rack              | +       | 960 / 5.760        |
| 772354   | standard             | ○ natural      | ● red             | refill            |         | 960 / 4.800        |
| 772355   | standard             | ○ natural      | ● red             | refill            | +       | 960 / 4.800        |
| 772361   | low retention        | ○ natural      | ● red             | rack              |         | 960 / 5.760        |
| 772362   | low retention        | ○ natural      | ● red             | rack              | +       | 960 / 5.760        |
| 772364   | low retention        | ○ natural      | ● red             | refill            |         | 960 / 4.800        |
| 772365   | low retention        | ○ natural      | ● red             | refill            | +       | 960 / 4.800        |
| 772353   | filter               | ○ natural      | ● red             | rack              | +       | 960 / 5.760        |
| 772363   | low retention filter | ○ natural      | ● red             | rack              | +       | 960 / 5.760        |





### Filter Tips

20 µl

- / Prevent contamination with liquids and aerosols during pipetting
- / filters manufactured without additives
- / Easy-to-read graduation
- / Colour-coded for tip identification

STERILE

FREE OF detectable DNase

FREE OF detectable human DNA

FREE OF detectable RNase

non-cytotoxic

non-pyrogenic

PCR



Raw material: PP, Volume range: 2 - 20 µl, Nominal volume: 20 µl, Type of packaging: rack

| Item no. | Feature              | Box insert colour | Sterile | Qty. inner / outer |
|----------|----------------------|-------------------|---------|--------------------|
| 773353   | filter               | ● orange          | +       | 960 / 5,760        |
| 773363   | low retention filter | ● orange          | +       | 960 / 5,760        |



### Filter Tips

100 µl

- / Prevent contamination with liquids and aerosols during pipetting
- / filters manufactured without additives
- / Easy-to-read graduation
- / Colour-coded for tip identification

STERILE

FREE OF detectable DNase

FREE OF detectable human DNA

FREE OF detectable RNase

non-cytotoxic

non-pyrogenic

PCR



Raw material: PP, Volume range: 5 - 100 µl, Nominal volume: 100 µl, Type of packaging: rack

| Item no. | Feature              | Box insert colour | Sterile | Qty. inner / outer |
|----------|----------------------|-------------------|---------|--------------------|
| 774353   | filter               | ● dark yellow     | +       | 960 / 5,760        |
| 774363   | low retention filter | ● dark yellow     | +       | 960 / 5,760        |

## Pipette Tips

### 200 µl



- / Universal fit for all common pipettes
- / Tips (without filter) and racks are autoclavable
- / Easy-to-read graduation
- / Colour-coded for tip identification

STERILE

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
cytotoxic

 non-  
pyrogenic

 PCR



Raw material: PP, Volume range: 5 - 200 µl, Nominal volume: 200 µl, Matching rack: 770320

| Item no. | Feature              | Box insert colour | Type of packaging | Sterile | Qty. inner / outer |
|----------|----------------------|-------------------|-------------------|---------|--------------------|
| 775350   | standard             | ● yellow          | bag               |         | 1,000 / 15,000     |
| 775351   | standard             | ● yellow          | rack              |         | 960 / 5,760        |
| 775352   | standard             | ● yellow          | rack              | +       | 960 / 5,760        |
| 775354   | standard             | ● yellow          | refill            |         | 960 / 4,800        |
| 775355   | standard             | ● yellow          | refill            | +       | 960 / 4,800        |
| 775361   | low retention        | ● yellow          | rack              |         | 960 / 5,760        |
| 775362   | low retention        | ● yellow          | rack              | +       | 960 / 5,760        |
| 775364   | low retention        | ● yellow          | refill            |         | 960 / 4,800        |
| 775365   | low retention        | ● yellow          | refill            | +       | 960 / 4,800        |
| 775353   | filter               | ● yellow          | rack              | +       | 960 / 5,760        |
| 775363   | low retention filter | ● yellow          | rack              | +       | 960 / 5,760        |



**Pipette Tips**

**300 µl**

- / Universal fit for all common pipettes
- / Tips (without filter) and racks are autoclavable
- / Easy-to-read graduation
- / Colour-coded for tip identification

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
cytotoxic

 non-  
pyrogenic

 PCR



Raw material: PP, Volume range: 10 - 300 µl, Nominal volume: 300 µl, Matching rack: 770330

| Item no. | Feature              | Box insert colour | Type of packaging | Sterile | Qty. inner / outer |
|----------|----------------------|-------------------|-------------------|---------|--------------------|
| 776350   | standard             | ● green           | bag               |         | 1,000 / 10,000     |
| 776351   | standard             | ● green           | rack              |         | 960 / 5,760        |
| 776352   | standard             | ● green           | rack              | +       | 960 / 5,760        |
| 776354   | standard             | ● green           | refill            |         | 960 / 4,800        |
| 776355   | standard             | ● green           | refill            | +       | 960 / 4,800        |
| 776361   | low retention        | ● green           | rack              |         | 960 / 5,760        |
| 776362   | low retention        | ● green           | rack              | +       | 960 / 5,760        |
| 776364   | low retention        | ● green           | refill            |         | 960 / 4,800        |
| 776365   | low retention        | ● green           | refill            | +       | 960 / 4,800        |
| 776353   | filter               | ● green           | rack              | +       | 960 / 5,760        |
| 776363   | low retention filter | ● green           | rack              | +       | 960 / 5,760        |



### Pipette Tips

1000 µl

- / Universal fit for all common pipettes
- / Tips (without filter) and racks are autoclavable
- / Easy-to-read graduation
- / Colour-coded for tip identification

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase



Raw material: PP, Volume range: 50 - 1.000 µl, Nominal volume: 1,000 µl, Matching rack: 770340

| Item no. | Feature       | Box insert colour | Type of packaging | Sterile | Qty. inner / outer |
|----------|---------------|-------------------|-------------------|---------|--------------------|
| 777350   | standard      | ● blue            | bag               |         | 1,000 / 5,000      |
| 777351   | standard      | ● blue            | rack              |         | 960 / 3,840        |
| 777352   | standard      | ● blue            | rack              | +       | 960 / 3,840        |
| 777354   | standard      | ● blue            | refill            |         | 960 / 4,800        |
| 777355   | standard      | ● blue            | refill            | +       | 960 / 4,800        |
| 777361   | low retention | ● blue            | rack              |         | 960 / 3,840        |
| 777362   | low retention | ● blue            | rack              | +       | 960 / 3,840        |
| 777364   | low retention | ● blue            | refill            |         | 960 / 4,800        |
| 777365   | low retention | ● blue            | refill            | +       | 960 / 4,800        |



### Pipette Tips

1250 µl

- / Universal fit for all common pipettes
- / Tips (without filter) and racks are autoclavable
- / Easy-to-read graduation
- / Colour-coded for tip identification

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
cytotoxic

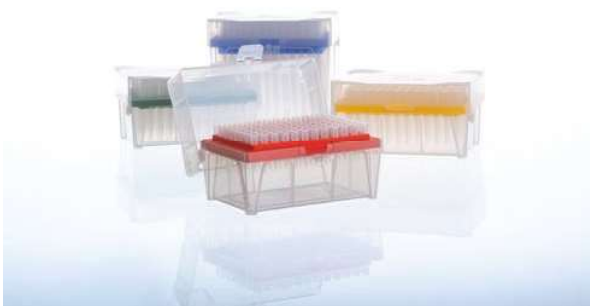
 non-  
pyrogenic

 PCR



Raw material: PP, Volume range: 50 - 1.250 µl, Nominal volume: 1,250 µl, Matching rack: 770340

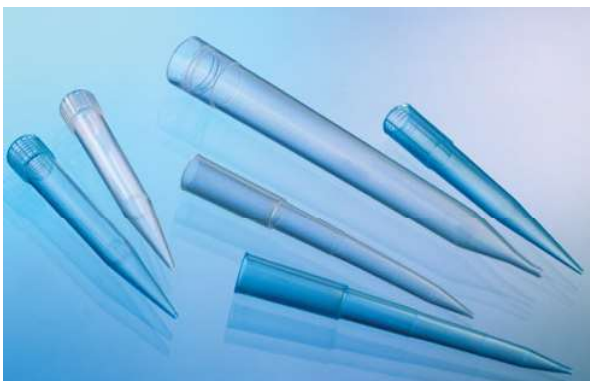
| Item no. | Feature              | Box insert colour | Type of packaging | Sterile | Qty. inner / outer |
|----------|----------------------|-------------------|-------------------|---------|--------------------|
| 778350   | standard             | ● blue            | bag               |         | 1,000 / 5,000      |
| 778351   | standard             | ● blue            | rack              |         | 960 / 3,840        |
| 778352   | standard             | ● blue            | rack              | +       | 960 / 3,840        |
| 778354   | standard             | ● blue            | refill            |         | 960 / 4,800        |
| 778355   | standard             | ● blue            | refill            | +       | 960 / 4,800        |
| 778361   | low retention        | ● blue            | rack              |         | 960 / 3,840        |
| 778362   | low retention        | ● blue            | rack              | +       | 960 / 3,840        |
| 778364   | low retention        | ● blue            | refill            |         | 960 / 4,800        |
| 778365   | low retention        | ● blue            | refill            | +       | 960 / 4,800        |
| 778353   | filter               | ● blue            | rack              | +       | 960 / 3,840        |
| 778363   | low retention filter | ● blue            | rack              | +       | 960 / 3,840        |



**Racks**  
**(unfilled)**

- / Highly transparent and stable
- / Can be autoclaved and reused up to 50 times
- / Stackable and automation-friendly
- / Colour-coded rack inserts for quick volume identification

| Item no. | Description                     | Feature             | Box insert colour | Rack colour | Qty. inner / outer |
|----------|---------------------------------|---------------------|-------------------|-------------|--------------------|
| 770310   | suitable for 10 µl / 10 µl ext. |                     | ● red             | ○ natural   | 10 / 60            |
| 770320   | suitable for 200 µl             |                     | ● yellow          | ○ natural   | 10 / 60            |
| 770330   | suitable for 300 µl             |                     | ● green           | ○ natural   | 10 / 60            |
| 770340   | suitable for 1000 µl / 1250 µl  |                     | ● blue            | ○ natural   | 10 / 40            |
| 770370   | suitable for 10 - 300 µl        | without rack insert |                   | ○ natural   | 10 / 60            |
| 770380   | suitable for 1000 - 1250 µl     | without rack insert |                   | ○ natural   | 10 / 40            |



**Macro Pipette Tip**  
**1-5 ml**

- / Volume range from 1 - 5 ml
- / Suitable for Gilson® P5000

Feature: Macro, Graduation: -, Volume range: 1 - 5 ml

| Item no. | Product colour | Qty. inner / outer |
|----------|----------------|--------------------|
| 745290   | ○ natural      | 250 / 2,500        |



- / Serological pipettes are also available triple-packed.



## **CELLSTAR®** SEROLOGICAL PIPETTES

- / Tip design guarantees a drop-free pipetting
- / Maximum accuracy
- / High optical clarity
- / Clear, easily legible graduation
- / A coloured vertical Schellbach stripe on 1, 2, 5, 10 and 25 ml pipettes makes it considerably easier to read off the volume
- / Colour code according to international standards

**Greiner Bio-One offers a wide range of different serological pipettes and transfer pipettes.**

The volume capacity of the serological pipettes is increased by a negative graduation. The pipettes are provided with colour codes according to international standards. The use of high-grade polystyrene guarantees maximum clarity. Expiry date and LOT number are printed on

each single packaging unit. All pipettes are supplied with a filter for protection against the suction of liquid into the pipetting device.

CELLSTAR® serological pipettes are available in three different packaging options: in plastic bulk packs as well as individually wrapped in plastic or paper/plastic, both with peel-off function and additional break-through function.



### Serological Pipettes

- / Sterile
- / Increased volume range with negative graduations
- / Lot number and expiry date on each bag
- / Filter for protection against suction of liquids into the pipetting device
- / Various packaging options

|         |                          |                              |                          |               |               |
|---------|--------------------------|------------------------------|--------------------------|---------------|---------------|
| STERILE | FREE OF detectable DNase | FREE OF detectable human DNA | FREE OF detectable RNase | non-cytotoxic | non-pyrogenic |
|---------|--------------------------|------------------------------|--------------------------|---------------|---------------|

Raw material: PS

| Item no. | Description   | Graduation | Nominal volume | Packaging         | Type of packaging | Sterile | Qty. inner / outer |
|----------|---------------|------------|----------------|-------------------|-------------------|---------|--------------------|
| 604107   | 1 ml pipette  | 1/100      | 1 ml           |                   | bulk              | +       | 25 / 1,000         |
| 604160   | 1 ml pipette  | 1/100      | 1 ml           | plastic / plastic | single-packed     | +       | 100 / 1,000        |
| 604181   | 1 ml pipette  | 1/100      | 1 ml           | paper / plastic   | single-packed     | +       | 100 / 1,000        |
| 710107   | 2 ml pipette  | 1/100      | 2 ml           |                   | bulk              | +       | 25 / 1,000         |
| 710160   | 2 ml pipette  | 1/100      | 2 ml           | plastic / plastic | single-packed     | +       | 100 / 1,000        |
| 710180   | 2 ml pipette  | 1/100      | 2 ml           | paper / plastic   | single-packed     | +       | 100 / 1,000        |
| 606107   | 5 ml pipette  | 1/10       | 5 ml           |                   | bulk              | +       | 25 / 500           |
| 606160   | 5 ml pipette  | 1/10       | 5 ml           | plastic / plastic | single-packed     | +       | 50 / 200           |
| 606180   | 5 ml pipette  | 1/10       | 5 ml           | paper / plastic   | single-packed     | +       | 50 / 200           |
| 607107   | 10 ml pipette | 1/10       | 10 ml          |                   | bulk              | +       | 25 / 500           |
| 607160   | 10 ml pipette | 1/10       | 10 ml          | plastic / plastic | single-packed     | +       | 50 / 200           |
| 607180   | 10 ml pipette | 1/10       | 10 ml          | paper / plastic   | single-packed     | +       | 50 / 200           |
| 760107   | 25 ml pipette | 2/10       | 25 ml          |                   | bulk              | +       | 25 / 200           |
| 760160   | 25 ml pipette | 2/10       | 25 ml          | plastic / plastic | single-packed     | +       | 50 / 200           |
| 760180   | 25 ml pipette | 2/10       | 25 ml          | paper / plastic   | single-packed     | +       | 50 / 200           |
| 768160   | 50 ml pipette | 1/2        | 50 ml          | plastic / plastic | single-packed     | +       | 20 / 100           |
| 768180   | 50 ml pipette | 1/2        | 50 ml          | paper / plastic   | single-packed     | +       | 20 / 100           |





**Serological Pipettes**

**Triple-packed**

- / Sterile
- / Increased volume range with negative graduations
- / Lot number and expiry date on each bag
- / Filter for protection against suction of liquids into the pipetting device
- / Triple-packed

|         |                          |                              |                          |               |               |
|---------|--------------------------|------------------------------|--------------------------|---------------|---------------|
| STERILE | FREE OF detectable DNase | FREE OF detectable human DNA | FREE OF detectable RNase | non-cytotoxic | non-pyrogenic |
|---------|--------------------------|------------------------------|--------------------------|---------------|---------------|

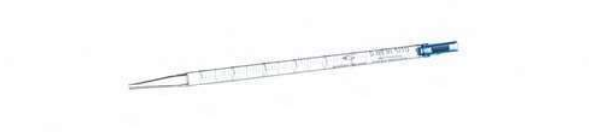
Raw material: PS, Packaging: plastic / plastic, Triple-packed: yes

| Item no.   | Description   | Graduation | Nominal volume | Sterile | Qty. inner / outer |
|------------|---------------|------------|----------------|---------|--------------------|
| 604160-TRI | 1 ml pipette  | 1/100      | 1 ml           | +       | 10 / 100           |
| 710160-TRI | 2 ml pipette  | 1/100      | 2 ml           | +       | 10 / 100           |
| 606160-TRI | 5 ml pipette  | 1/10       | 5 ml           | +       | 10 / 100           |
| 607160-TRI | 10 ml pipette | 1/10       | 10 ml          | +       | 10 / 100           |
| 760160-TRI | 25 ml pipette | 2/10       | 25 ml          | +       | 10 / 100           |
| 768160-TRI | 50 ml pipette | 1/2        | 50 ml          | +       | 10 / 100           |

**Serological Pipettes**

**Special Models**

- / Short-format pipettes (shorties) permit back-saving work
- / 2 ml aspiration pipette without plug and graduation
- / Single-packed



|         |                          |                              |                          |               |               |
|---------|--------------------------|------------------------------|--------------------------|---------------|---------------|
| STERILE | FREE OF detectable DNase | FREE OF detectable human DNA | FREE OF detectable RNase | non-cytotoxic | non-pyrogenic |
|---------|--------------------------|------------------------------|--------------------------|---------------|---------------|

Raw material: PS

| Item no. | Description             | Feature | Graduation | Nominal volume | Packaging         | Sterile | Qty. inner / outer |
|----------|-------------------------|---------|------------|----------------|-------------------|---------|--------------------|
| 710183   | 2 ml aspiration pipette | no plug | -          | 2 ml           | paper / plastic   | +       | 100 / 1,000        |
| 606190   | 5 ml pipette            | shorty  | 1/10       | 5 ml           | plastic / plastic | +       | 50 / 200           |
| 607190   | 10 ml pipette           | shorty  | 2/10       | 10 ml          | plastic / plastic | +       | 50 / 200           |



### MaxiPette

- / Ergonomic design for easy pipetting
- / Variable speed control
- / Cordless and rechargeable
- / Up to eight hours of continuous operation
- / Compatible with Greiner Bio-One serological pipettes

Description: MaxiPette, Content kit: pipette controller charger benchtop stand extra filter replaceable lithium battery

| Item no. | Qty. inner / outer |
|----------|--------------------|
| 847070   | 1 / 1              |

/ Device with US or UK plug available on request



### Pasteur / Serum Pipettes

- / Ideally suited for the rapid transfer of liquids
- / Sterile / non-sterile

Length: 153 mm

| Item no. | Description     | Graduation | Working volume | Sterile | Qty. Inner / outer |
|----------|-----------------|------------|----------------|---------|--------------------|
| 700370   | pasteur pipette | -          | ≤0,1 ml        |         | 500 / 1.500        |
| 700361   | pasteur pipette | -          | ≤0,1 ml        | +       | 25 / 1.000         |
| 612301   | serum pipette   | yes        | ≤2,5 ml        |         | 500 / 1.500        |
| 612361   | serum pipette   | yes        | ≤2,5 ml        | +       | 1 / 800            |
| 612362   | serum pipette   | yes        | ≤2,5 ml        | +       | 25 / 1.000         |



The study of microorganisms, their metabolism and their effects on other (macro-) organisms generally refers to the field of microbiology. The various detection methods are used in many research areas and in industry. For example, tests for the detection of microorganisms and for quality assurance are also applied in the production of pharmaceuticals, cosmetics, food and beverages.



# MICROBIOLOGY

|  |     |
|--|-----|
| / Dishes / Plates / Others .....             | 168 |
| Petri Dishes .....                           | 169 |
| Contact Dishes Divided Petri Dish.....       | 169 |
| Macroplate / Square Petri Dish               |     |
| / OneWell Plate .....                        | 170 |
| Swab Tube Cotton Swab .....                  | 170 |
| Disposable Inoculation Loops / Needles ..... | 171 |



/ For exact dimensions of our petri dishes, please refer to the product data sheets on our website.

## DISHES / PLATES / OTHERS

Greiner Bio-One offers petri dishes with diameters of 35, 60, 94, 100 and 145 mm. Manufactured from highly transparent polystyrene (PS), they are heat-resistant up to 60 °C for use with hot agar. Depending on the application vented and non-vented design can be selected. Besides the standard round design, a square-profile dish (120 mm x 120 mm x 17 mm) and the OneWell Plate in SBS format are available.

Furthermore, Greiner Bio-One offers contact dishes which are used with hygiene monitoring including detection of contaminations as well as testing the effectiveness of cleaning and disinfection on plane surfaces by means of contact cultures. The product range is completed by a special model with two compartments which enables parallel experiments with different samples or parameters in one dish.



### Petri Dishes

- / Available in different sizes
- / Easy stacking
- / With or without vents
- / Manufactured from crystal clear polystyrene

| Item no. | Height | Ø nominal size | Vent nock | Qty. inner / outer |
|----------|--------|----------------|-----------|--------------------|
| 627102   | 10 mm  | 35 mm          | yes       | 10 / 740           |
| 628102   | 15 mm  | 60 mm          | yes       | 20 / 600           |
| 632180   | 16 mm  | 94 mm          | no        | 20 / 480           |
| 633180   | 16 mm  | 94 mm          | yes       | 20 / 480           |
| 664102   | 20 mm  | 100 mm         | yes       | 15 / 360           |
| 639102   | 20 mm  | 145 mm         | yes       | 15 / 120           |



### Contact Dishes

#### Divided Petri Dish

- / With or without vents
- / Manufactured from crystal clear polystyrene
- / Contact dish (sterile) with graduation to enable quick and easy analyses

Height: 15 mm

| Item no. | Feature        | Compartments | Ø nominal size | Total volume (well) | Vent nock | Sterile | Qty. inner / outer |
|----------|----------------|--------------|----------------|---------------------|-----------|---------|--------------------|
| 629102   |                |              | 65 mm          |                     | no        |         | 20 / 600           |
| 629161   | graduated      |              | 65 mm          |                     | no        | +       | 20 / 600           |
| 629180   | graduated      |              | 65 mm          |                     | yes       | +       | 20 / 600           |
| 635102   | 2 compartments | 2            | 94 mm          | 20 ml               | yes       |         | 20 / 480           |



**Macroplate / Square Petri Dish / OneWell Plate**

- / With vents
- / Manufactured from crystal clear polystyrene
- / Optimised space requirement compared to round dishes

| Item no. | Feature           | Well format | Length   | Width   | Product colour | Total volume (well) | Lid                | Vent nock | Qty. inner / outer |
|----------|-------------------|-------------|----------|---------|----------------|---------------------|--------------------|-----------|--------------------|
| 657102   | microplate format | 6           | 127.8 mm | 85.5 mm | ○ clear        | 16 ml               | condensation rings |           | 2 / 100            |
| 670102   | microplate format | 1           | 127.8 mm | 85.5 mm | ○ clear        | 113.7 ml            | yes                | yes       | 8 / 32             |
| 688102   | square            |             | 120 mm   | 120 mm  | ○ clear        |                     | yes                | yes       | 10 / 240           |



STERILE

**Swab Tube Cotton Swab**

- / Suitable for taking non-human bacteriological, serological or cytological samples in veterinary research
- / For hygienic controls in food industry as well as in environmental sampling

| Item no. | Description | Feature               | Height | ∅     | Sterile | Qty. inner / outer |
|----------|-------------|-----------------------|--------|-------|---------|--------------------|
| 420161   | Swab Tube   | swab tube, polystyrol | 110 mm | 16 mm | +       | 1,300 / 1,300      |
| 420180   | Swab Tube   | swab tube, polystyrol | 110 mm | 16 mm | +       | 1 / 1,000          |
| 421161   | Swab Tube   | swab tube, polystyrol | 152 mm | 16 mm | +       | - / 1,000          |
| 421180   | Swab Tube   | swab tube, polystyrol | 152 mm | 16 mm | +       | 1 / 700            |
| 421084   | Cotton Swab |                       | 145 mm |       | +       | 1 / 1,400          |



STERILE

### Disposable Inoculation Loops / Needles

- / Needles ideal for picking single colonies
- / Flexible loops for easier collection and inoculation
- / Colour coding for volume differentiation

Length: 200 mm

| Item no. | Description        | Product colour | Volume | Sterile | Qty. inner / outer |
|----------|--------------------|----------------|--------|---------|--------------------|
| 731101   | inoculation loop   | ○ white        | 1 µl   | +       | 50 / 2,000         |
| 731161   | inoculation loop   | ○ white        | 1 µl   | +       | 1 / 600            |
| 731165   | inoculation loop   | ○ white        | 1 µl   | +       | 10 / 3,000         |
| 731170   | inoculation loop   | ● blue         | 10 µl  | +       | 50 / 2,000         |
| 731171   | inoculation loop   | ● blue         | 10 µl  | +       | 1 / 600            |
| 731175   | inoculation loop   | ● blue         | 10 µl  | +       | 10 / 3,000         |
| 731180   | inoculation needle | ● yellow       |        | +       | 50 / 2,000         |
| 731181   | inoculation needle | ● yellow       |        | +       | 1 / 600            |
| 731185   | inoculation needle | ● yellow       |        | +       | 1 / 3,000          |





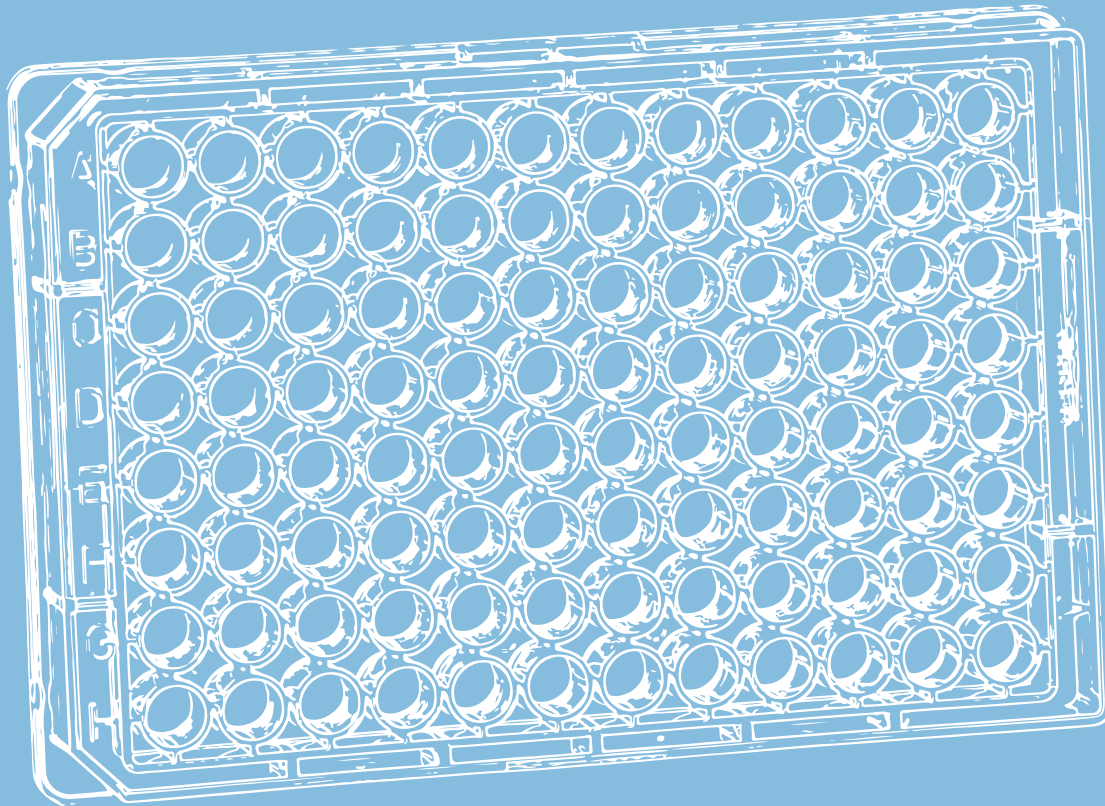
Continued progress in research and related technologies, such as microscopy, imaging, detection and liquid handling, has given rise to a wide variety of platforms used in basic science, biotechnology and pharmaceutical drug development. Today, researchers can select application-specific microplates among a broad range of products that differ in format, design, base material, colour and surface properties.

## HTS-MICROPLATES

|  |     |  |     |
|--|-----|--|-----|
| / 96 Well Microplates .....                    | 178 | / UV-Star® Microplates .....           | 197 |
| 96 Well Microplates Polystyrene .....          | 179 | UV-Star® Microplates .....             | 198 |
| 96 Well Microplates Polystyrene - Half Area... | 180 | / Lids / Sealers / CapMats .....       | 199 |
| 96 Well Microplates Polypropylene.....         | 180 | Lids .....                             | 200 |
| / 384 Well Microplates .....                   | 182 | Sealers .....                          | 200 |
| 384 Well Microplates Polystyrene .....         | 183 | CapMats .....                          | 201 |
| 384 Well Microplates Polystyrene               |     | / Protein Crystallisation Plates ..... | 202 |
| - Small Volume.....                            | 184 | 96 Well CrystalQuick                   |     |
| 384 Well Microplates Polypropylene.....        | 184 | / CrystalQuick Plus Plates.....        | 203 |
| / 1536 Well Microplates .....                  | 185 | 24 Well ComboPlate CrystalBridge       |     |
| 1536 Well Microplates .....                    | 186 | / Coverslips .....                     | 203 |
| / Polypropylene Storage Plates .....           | 187 | Terasaki Plates 60 and 72 Well .....   | 204 |
| 96 Well MASTERBLOCK® Polypropylene.....        | 188 |  |     |
| 96 Well Storage Box .....                      | 188 |  |     |
| 384 Deep Well MASTERBLOCK®                     |     |  |     |
| Polypropylene.....                             | 189 |  |     |
| 1536 Deep Well Microplates Polypropylene ....  | 189 |  |     |
| / Microplates for Compound Storage ....        | 190 |  |     |
| Microplates for Compound Storage 384           |     |  |     |
| and 1536 Well .....                            | 191 |  |     |
| / Non-binding Microplates .....                | 192 |  |     |
| Non-binding Microplates 96 Well .....          | 193 |  |     |
| Non-binding Microplates 384 and 1536 Well ...  | 193 |  |     |
| / Streptavidin-coated Microplates.....         | 195 |  |     |
| Streptavidin-coated 96 and 384 Well .....      | 196 |  |     |

## MICROPLATES

- / Comprehensive microplate portfolio
- / 96 / 384 / 1536 Well
- / High-quality materials for each application
- / Different well geometries
- / Various surface modifications



## HIGH-THROUGHPUT SCREENING MICROPLATES FROM GREINER BIO-ONE

**Polypropylene (PP)** and **polystyrene (PS)** are the standard materials used to manufacture the majority of microplates. Polystyrene is a highly clear polymer with excellent optical properties which makes it ideal for precise optical measurements. Polystyrene is also characterised by its ability to bind biomolecules, such as proteins, and it is therefore often used for manufacturing immunological products. Polystyrene is suitable for work with cell cultures.

Polypropylene is characterised by its excellent chemical

and thermal stability. It is the ideal polymer for storage vessels or microplates. In addition, Greiner Bio-One manufactures microplates with special requirement profiles, such as the UV-Star® or SCREENSTAR microplates made from different **cycloolefins**. They are characterised by their low level of autofluorescence, exceptionally high clarity, especially in the UV range, and greater chemical stability when compared with polystyrene.

### GREINER BIO-ONE MICROPLATES:

- / Manufactured under DIN ISO 9001 guidelines
- / Full traceability
- / Footprint compatible with automated systems
- / Free of detectable endotoxins
- / Free of detectable DNase, RNase and human DNA
- / Available with barcode on request



**OUR PORTFOLIO  
OFFERS THE  
RIGHT PLATFORM  
AND COATING  
FOR EVERY  
APPLICATION**

### **µClear® and UV-Star® Film Bottom Microplates**

The development of a new and patented processing technique has made it possible for us to produce microplates with ultra-thin films, without the use of adhesives or solvents – the µClear® and UV-Star® products. This special method eradicates the risk of leaking wells.

### **SensoPlate Glass Bottom Microplates**

SensoPlate glass bottom microplates consist of a black pigmented polystyrene frame on to which a 175 µm thick borosilicate glass bottom is bonded. Thanks to the high optical quality of the glass bottom as well as the minimal bending, SensoPlate are

especially recommended for fluorescence correlation spectroscopy and sophisticated microscopic applications.

### **Black or White?**

White microplates are usually used for luminescence measurements (e. g. Luciferase Reporter Assays) and black microplates for fluorescence measurements (e.g. Green Fluorescence Protein). The critical properties in these methods, such as background, autofluorescence or crosstalk are considerably improved by the use of black or white pigmented microplates.

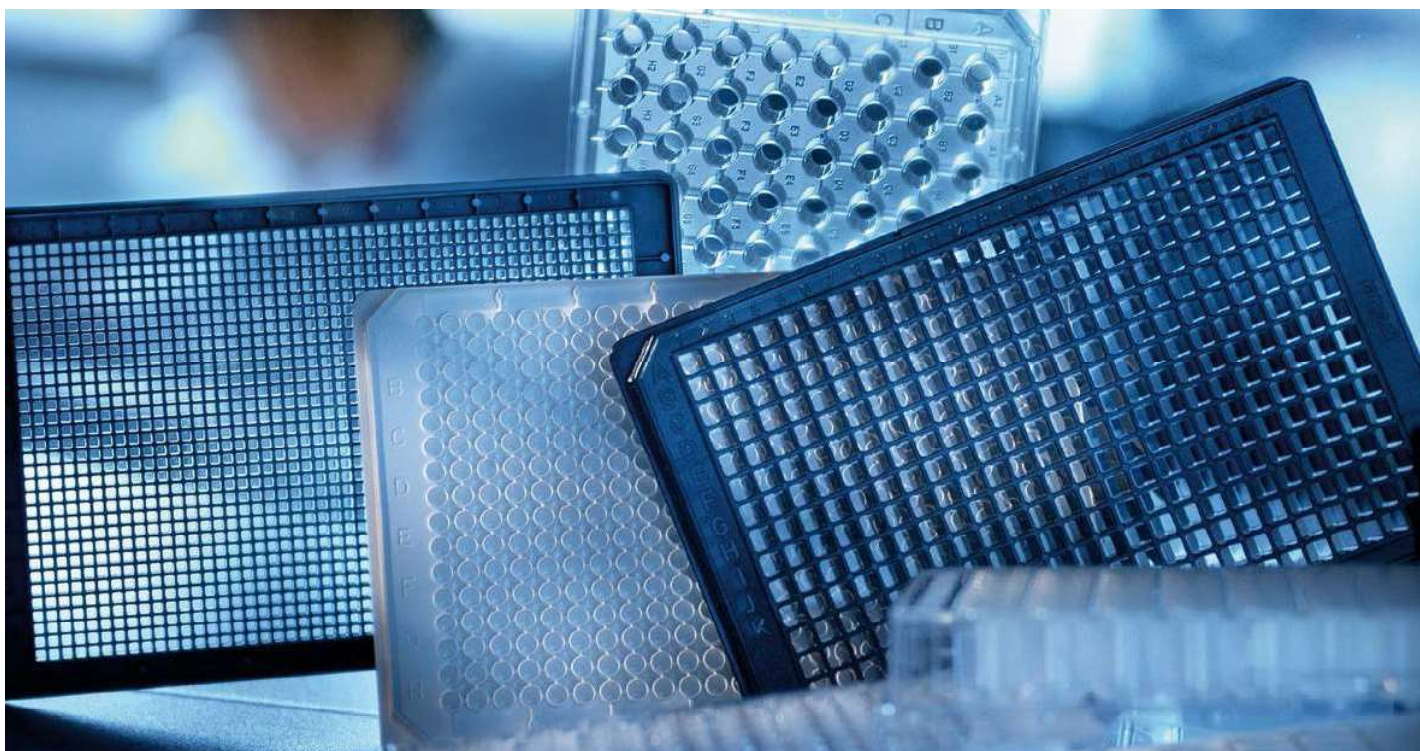


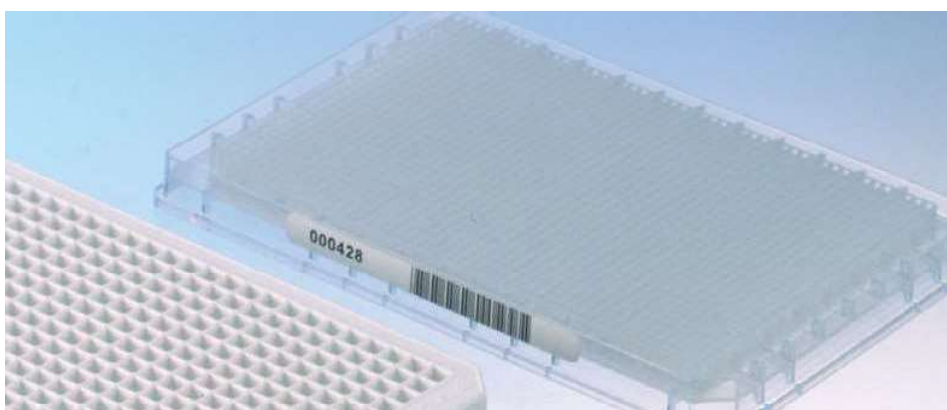
### **Further information on microplates:**

Forum No. 19: Base Material and Surface Modifications of Greiner Bio-One Multiwell Plates and Microplates – An Overview (**F073793**)

Microplate Selection Guide (**F073048**)

Microplate Dimensions Guide (**F073027**).





### BARCODE:

You can download the microplate order form directly from our website [www.gbo.com](http://www.gbo.com) (Item no. F073010)

### MICROLON, FLUOTRAC, LUMITRAC

These brands stand for the quality of our immunology products. MICROLON are clear microplates for transmission measurements. FLUOTRAC are black microplates for fluorescence measurements. LUMITRAC are white microplates for luminescence measurements.

### Non-binding Surfaces

Non-binding surfaces are characterised by their low binding capacity for biomolecules such as DNA, RNA, peptides and proteins. The repellent property of the non-binding surfaces for biomolecules can be advantageous in biochemical assays by increasing the sensitivity, reducing the background and improving the signal-to-noise ratio.

#### MICROLON, FLUOTRAC, LUMITRAC

Quality brands for immunological Plates:

##### MICROLON

clear microplates for transmission measurements

##### FLUOTRAC

black microplates for fluorescence measurements

##### LUMITRAC

white microplates for luminescence measurements

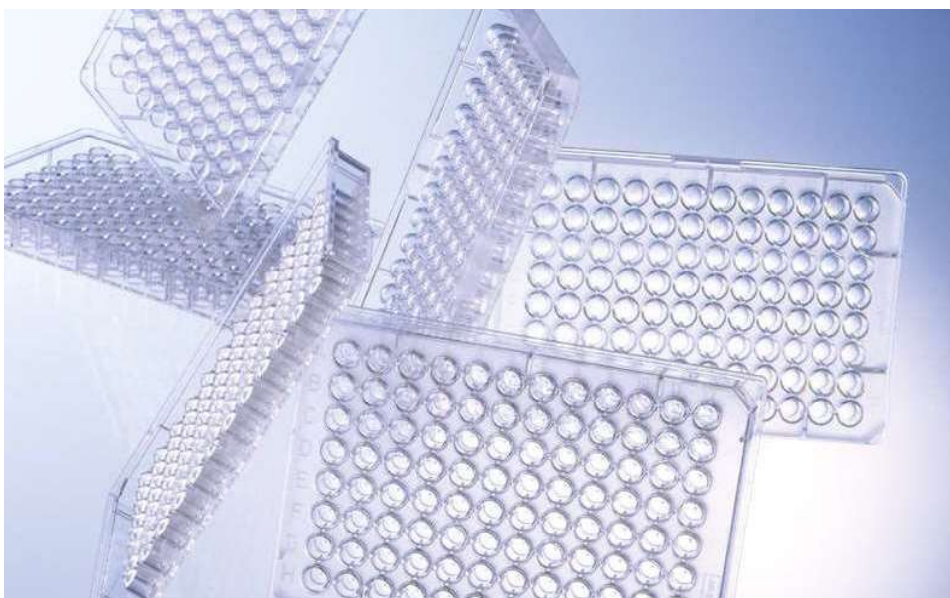
#### Non-binding surfaces

Low binding capacity for biomolecules such as DNA, RNA, peptides and proteins for sensitive biochemical assays

#### Cell Culture Surface

Significantly improves the adhesion of cells and the binding of proteins to the plastic surface

(see chapter cell culture)



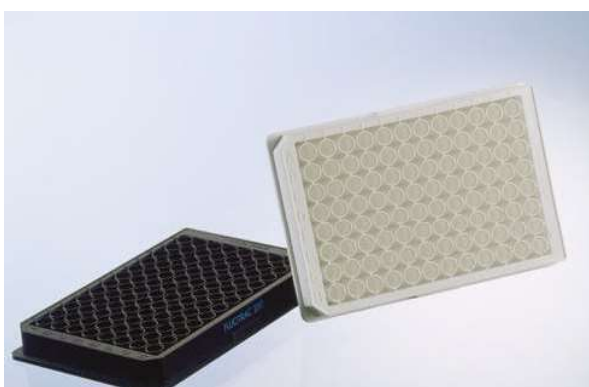
/ For details regarding the different well profiles, please refer to the technical appendix.

## 96 WELL MICROPLATES

Since its introduction in the 1960's applications for the 96 well microplate have continually increased to the extent that it is impossible to envisage modern research and industry without it today. Greiner Bio-One has been manufacturing microplates and strip microplates for diagnostics

and immunological research for over 40 years. A large number of different 96 well microplates is available in a wide variety of surface treatments. The spectrum ranges from clear bottom microplates and completely black or white microplates to UV-Star® products.

- / Available in polystyrene, polypropylene and cycloolefin
- / Clear / black / white
- / With U-bottom, V-bottom or F-bottom
- / Sterile / non-sterile
- / Non-treated or in high-binding quality
- / In non-binding quality

**96 Well Microplates****Polystyrene**

- / With U-bottom, V-bottom or F-bottom
- / Sterile / non-sterile
- / Non-treated or in high binding quality
- / With solid bottom or  $\mu$ Clear® film bottom

FREE OF  
detectable  
DNaseFREE OF  
detectable  
human DNAFREE OF  
detectable  
RNasenon-  
cytotoxicnon-  
pyrogenic

Well format: 96, Raw material: PS, Lid: no

| Item no. | Well profile               | Bottom       | Binding character-<br>istic | Binding brand<br>name | Surface<br>treatment | Product<br>colour | Working<br>volume<br>(well) | Sterile | Qty.<br>inner /<br>outer |
|----------|----------------------------|--------------|-----------------------------|-----------------------|----------------------|-------------------|-----------------------------|---------|--------------------------|
| 650101   | U-bottom                   | solid        |                             |                       | untreated            | ○ clear           | 40 $\mu$ l -<br>280 $\mu$ l |         | 10 /<br>100              |
| 650161   | U-bottom                   | solid        |                             |                       | untreated            | ○ clear           | 40 $\mu$ l -<br>280 $\mu$ l | +       | 2 /<br>100               |
| 651101   | V-bottom                   | solid        |                             |                       | untreated            | ○ clear           | 40 $\mu$ l -<br>200 $\mu$ l |         | 10 /<br>100              |
| 651161   | V-bottom                   | solid        |                             |                       | untreated            | ○ clear           | 40 $\mu$ l -<br>200 $\mu$ l | +       | 2 /<br>100               |
| 655101   | F-bottom                   | solid        |                             |                       | untreated            | ○ clear           | 25 $\mu$ l -<br>340 $\mu$ l |         | 10 /<br>100              |
| 655161   | F-bottom                   | solid        |                             |                       | untreated            | ○ clear           | 25 $\mu$ l -<br>340 $\mu$ l | +       | 2 /<br>100               |
| 655075   | F-bottom /<br>Chimney Well | solid        |                             |                       | untreated            | ○ white           | 25 $\mu$ l -<br>340 $\mu$ l |         | 10 /<br>40               |
| 655074   | F-bottom /<br>Chimney Well | solid        | high-bind-<br>ing           | LUMITRAC<br>600       |                      | ○ white           | 25 $\mu$ l -<br>340 $\mu$ l | +       | 10 /<br>40               |
| 655077   | F-bottom /<br>Chimney Well | solid        | high-bind-<br>ing           | FLUOTRAC<br>600       |                      | ● black           | 25 $\mu$ l -<br>340 $\mu$ l | +       | 10 /<br>40               |
| 655076   | F-bottom /<br>Chimney Well | solid        |                             |                       | untreated            | ● black           | 25 $\mu$ l -<br>340 $\mu$ l |         | 10 /<br>40               |
| 655095   | F-bottom /<br>Chimney Well | $\mu$ Clear® |                             |                       | untreated            | ○ white           | 25 $\mu$ l -<br>340 $\mu$ l |         | 10 /<br>40               |
| 655094   | F-bottom /<br>Chimney Well | $\mu$ Clear® | high-bind-<br>ing           |                       |                      | ○ white           | 25 $\mu$ l -<br>340 $\mu$ l | +       | 10 /<br>40               |
| 655097   | F-bottom /<br>Chimney Well | $\mu$ Clear® | high-bind-<br>ing           |                       |                      | ● black           | 25 $\mu$ l -<br>340 $\mu$ l | +       | 10 /<br>40               |
| 655096   | F-bottom /<br>Chimney Well | $\mu$ Clear® |                             |                       | untreated            | ● black           | 25 $\mu$ l -<br>340 $\mu$ l |         | 10 /<br>40               |





|                          |                              |                          |               |               |
|--------------------------|------------------------------|--------------------------|---------------|---------------|
| FREE OF detectable DNase | FREE OF detectable human DNA | FREE OF detectable RNase | non-cytotoxic | non-pyrogenic |
|--------------------------|------------------------------|--------------------------|---------------|---------------|

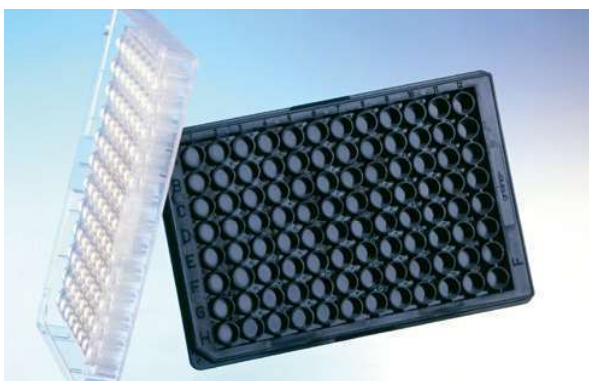
**96 Well Microplates**  
**Polystyrene - Half Area**

- / Sterile / non-sterile
- / Reduction of sample volume by up to 50 %
- / Standardised pathlength (1 cm=170 µl, 0.5 cm=80 µl)
- / Non-treated or in high-binding quality
- / With solid bottom or µClear® film bottom

Well format: 96, Well profile: F-bottom, Raw material: PS, Plate design: half area, Working volume (well): 15 µl - 175 µl, Lid: no

| Item no. | Bottom  | Binding characterisitc | Surface treatment | Product colour | Sterile | Qty. inner / outer |
|----------|---------|------------------------|-------------------|----------------|---------|--------------------|
| 675161   | solid   |                        | untreated         | ○ clear        | +       | 10 / 40            |
| 675101   | solid   |                        | untreated         | ○ clear        |         | 10 / 40            |
| 675074   | solid   | high-binding           |                   | ○ white        | +       | 10 / 40            |
| 675075   | solid   |                        | untreated         | ○ white        |         | 10 / 40            |
| 675077   | solid   | high-binding           |                   | ● black        | +       | 10 / 40            |
| 675076   | solid   |                        | untreated         | ● black        |         | 10 / 40            |
| 675096   | µClear® |                        | untreated         | ● black        |         | 10 / 40            |

/ Further information on Half Area Microplates: Forum No. 16: 96 Well Half Area Microplates and their Application in Fluorescence, Luminescence and Transmission Measurements (F073121)



|                          |                              |                          |               |
|--------------------------|------------------------------|--------------------------|---------------|
| FREE OF detectable DNase | FREE OF detectable human DNA | FREE OF detectable RNase | non-pyrogenic |
|--------------------------|------------------------------|--------------------------|---------------|

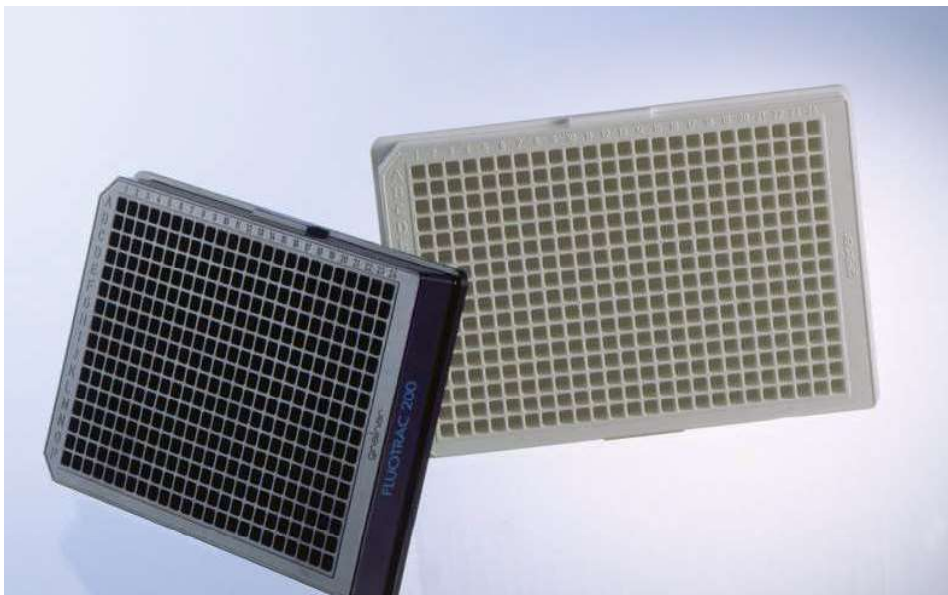
**96 Well Microplates**  
**Polypropylene**

- / Ideally suited for the storage of active agents, DNA/RNA or stock cultures
- / High chemical resistance and temperature tolerance
- / Black plates for fluorescence polarisation

Well format: 96, Bottom: solid, Raw material: PP, Surface treatment: untreated, Lid: no

| Item no. | Well profile            | Product colour | Working volume (well) | Sterile | Qty. inner / outer |
|----------|-------------------------|----------------|-----------------------|---------|--------------------|
| 650201   | U-bottom / Chimney Well | ○ natural      | 50 µl - 300 µl        |         | 10 / 100           |

| Item no. | Well profile            | Product colour | Working volume (well) | Sterile | Qty. inner / outer |
|----------|-------------------------|----------------|-----------------------|---------|--------------------|
| 650261   | U-bottom / Chimney Well | ○ natural      | 50 µl - 300 µl        | +       | 10 / 100           |
| 650209   | U-bottom / Chimney Well | ● black        | 50 µl - 300 µl        |         | 10 / 100           |
| 655201   | F-bottom / Chimney Well | ○ natural      | 25 µl - 370 µl        |         | 10 / 100           |
| 655209   | F-bottom / Chimney Well | ● black        | 25 µl - 370 µl        |         | 10 / 100           |
| 651201   | V-bottom/Chimney Well   | ○ natural      | 50 µl - 335 µl        |         | 10 / 100           |
| 651209   | V-bottom/Chimney Well   | ● black        | 50 µl - 335 µl        |         | 10 / 100           |



/ For cell culture treated microplates, please refer to chapter cell culture

## 384 WELL MICROPLATES

**Drug screening has undergone rapid development over the past years.**

The number of tests with new targets and the number of active agents to be tested is constantly increasing. Volume reduction, simple testing and cost savings are some of the highest priorities and high-format microplates with a low well volume are one of the most important tools in achieving this. One of the

first higher-format microplates was the 384 well plate, launched by Greiner Bio-One in 1994/1995. Compared with the 96 well microplate, the number of wells is quadrupled in this microplate, combined with a volume reduction from 382  $\mu$ l to 131  $\mu$ l. The well-to-well spacing is 4.5 mm (96 well plate: 9 mm). The external dimensions of the 384 well microplates are compatible with automated systems.

- / Available in polystyrene, polypropylene and cycloolefin
- / Clear / black / white
- / With F-bottom, V-bottom or as Small Volume option
- / Solid bottom or  $\mu$ Clear® film bottom
- / Non-treated or in high-binding quality
- / In non-binding quality



### 384 Well Microplates

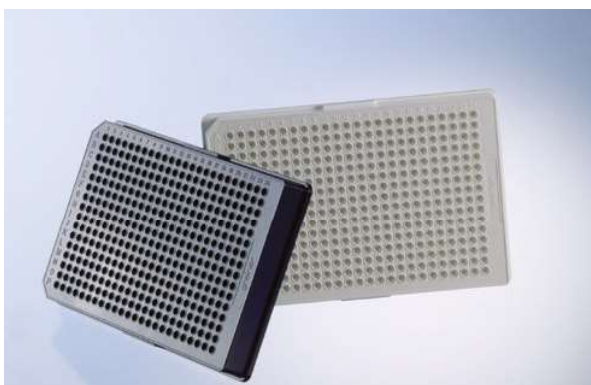
#### Polystyrene

- / Solid bottom or  $\mu$ Clear® film bottom
- / Sterile / non-sterile
- / Non-treated or in high-binding quality

|                          |                              |                          |               |               |
|--------------------------|------------------------------|--------------------------|---------------|---------------|
| FREE OF detectable DNase | FREE OF detectable human DNA | FREE OF detectable RNase | non-cytotoxic | non-pyrogenic |
|--------------------------|------------------------------|--------------------------|---------------|---------------|

Well format: 384, Well profile: F-bottom, Raw material: PS, Working volume (well): 15  $\mu$ l - 110  $\mu$ l

| Item no. | Bottom       | Binding characterisitic | Binding brand name | Surface treatment | Product colour | Lid | Sterile | Qty. inner / outer |
|----------|--------------|-------------------------|--------------------|-------------------|----------------|-----|---------|--------------------|
| 781101   | solid        |                         |                    | untreated         | ○ clear        | no  |         | 10 / 100           |
| 781061   | solid        | high-binding            |                    |                   | ○ clear        | no  | +       | 10 / 40            |
| 781162   | solid        |                         |                    | untreated         | ○ clear        | no  | +       | 10 / 100           |
| 781185   | solid        |                         |                    | untreated         | ○ clear        | yes | +       | 1 / 32             |
| 781186   | solid        |                         |                    | untreated         | ○ clear        | yes | +       | 8 / 32             |
| 781074   | solid        | high-binding            | LUMITRAC 600       |                   | ○ white        | no  | +       | 10 / 40            |
| 781075   | solid        |                         |                    | untreated         | ○ white        | no  |         | 10 / 40            |
| 781077   | solid        | high-binding            | FLUOTRAC 600       |                   | ● black        | no  | +       | 10 / 40            |
| 781076   | solid        |                         |                    | untreated         | ● black        | no  |         | 10 / 40            |
| 781095   | $\mu$ Clear® |                         |                    | untreated         | ○ white        | no  |         | 10 / 40            |
| 781097   | $\mu$ Clear® | high-binding            |                    |                   | ● black        | no  | +       | 10 / 40            |
| 781096   | $\mu$ Clear® |                         |                    | untreated         | ● black        | no  |         | 10 / 40            |



FREE OF detectable DNase

FREE OF detectable human DNA

FREE OF detectable RNase

non-cytotoxic

non-pyrogenic

**384 Well Microplates**

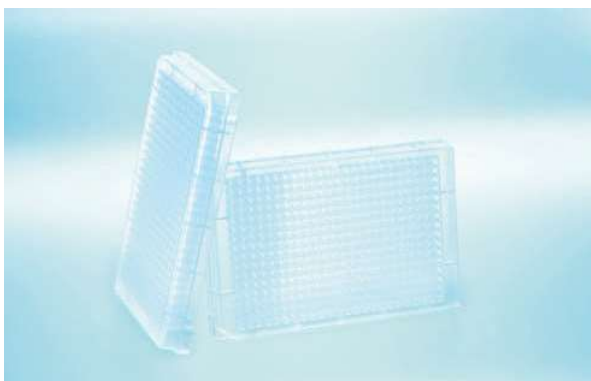
**Polystyrene - Small Volume**

HiBase

- / Perfect for top reading even at low working volumes
- / Savings in reagent similar to 1536 well microplates
- / Made of clear / black / white polystyrene for transmission, fluorescence or luminescence measurements

Well format: 384, Well profile: F-bottom, Bottom: solid, Raw material: PS, Surface treatment: untreated, Plate geometry: HiBase, Plate design: Small Volume, Working volume (well): 4 µl - 25 µl, Lid: no

| Item no.  | Product colour | Qty. inner / outer |
|-----------|----------------|--------------------|
| 784101    | ○ clear        | 10 / 40            |
| 784075    | ○ white        | 10 / 40            |
| 784075-25 | ○ white        | 25 / 150           |
| 784076    | ● black        | 10 / 40            |
| 784076-25 | ● black        | 25 / 150           |



FREE OF detectable DNase

FREE OF detectable human DNA

FREE OF detectable RNase

non-pyrogenic

**384 Well Microplates**

**Polypropylene**

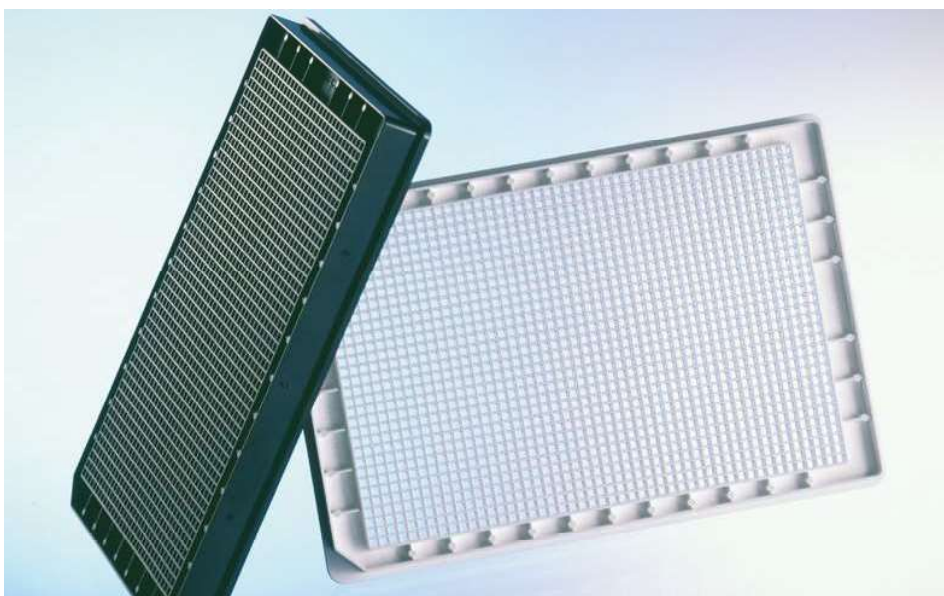
- / Ideally suited for the storage of active agents, DNA/RNA or stock cultures
- / High chemical resistance and temperature tolerance
- / Available natural or black
- / Item No. 781201-906 for Acoustic Liquid Handling

Well format: 384, Bottom: solid, Raw material: PP, Surface treatment: untreated, Lid: no

| Item no.   | Well profile | Product colour | Plate geometry | Plate design | Working volume (well) | Qty. inner / outer |
|------------|--------------|----------------|----------------|--------------|-----------------------|--------------------|
| 781201     | F-bottom     | ○ natural      |                |              | 15 µl - 145 µl        | 10 / 100           |
| 784201     | V-bottom     | ○ natural      | Deep Well      | Small Volume | 1 µl - 90 µl          | 10 / 100           |
| 781201-906 | F-bottom     | ○ natural      |                |              | 15 µl - 145 µl        | 10 / 100           |
| 781209     | F-bottom     | ● black        |                |              | 15 µl - 145 µl        | 10 / 100           |
| 781280     | V-bottom     | ○ natural      |                |              | 13 µl - 120 µl        | 10 / 100           |



- / For cell culture treated microplates, please refer to chapter cell culture



## 1536 WELL MICROPLATES

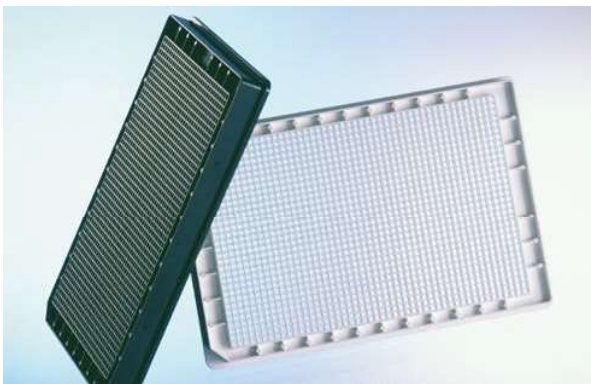
- / Available in polystyrene, polypropylene and cycloolefin
- / Clear / black / white
- / HiBase for top-reading applications
- / Solid bottom or  $\mu$ Clear® film bottom
- / Sterile / non-sterile
- / Non-treated or in high-binding quality

The highest possible degree of automation, optimal performance and cost savings continue to be the requirements placed on microplates for high-throughput screening.

In 1997, shortly after the launch of the 384 well microplates, Greiner Bio-One was the first manufacturer to introduce another innovative microplate format – the 1536 well microplate. The external dimensions were

the same as those used in the 96 well and 384 well microplates. However, to utilise the available space most efficiently, the number of wells was increased four-fold from 384 to 1536.

Close cooperation with numerous users has now led to the development of a broad product range, and the constant drive towards improvements in quality has, for example, led to a reduction in curvature of the plates to < 100  $\mu$ m.



### 1536 Well Microplates

- / Solid bottom or  $\mu$ Clear® film bottom
- / Sterile / non-sterile
- / Non-treated or in high-binding quality

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

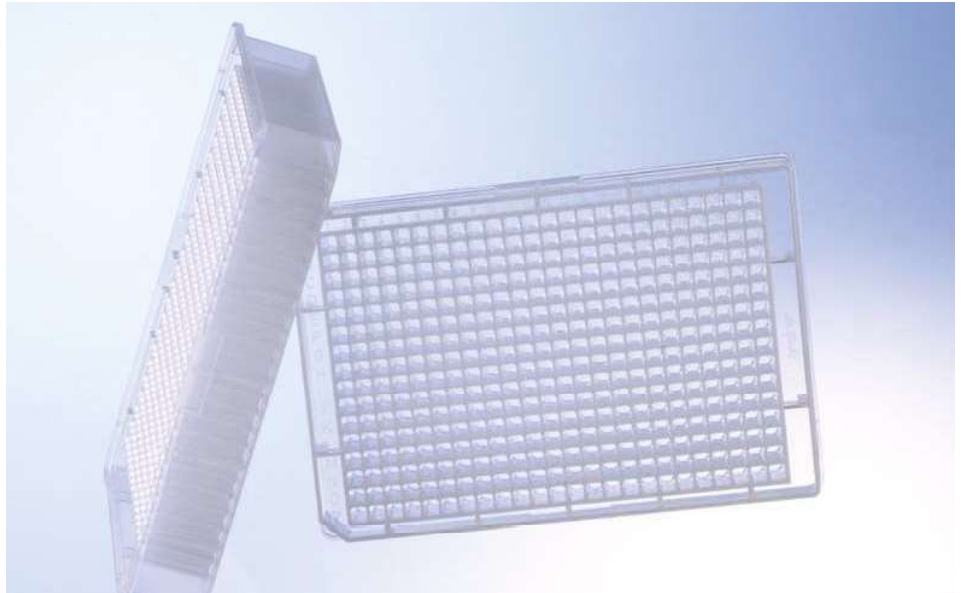
 non-  
pyrogenic

Well format: 1536, Well profile: F-bottom, Raw material: PS, Plate geometry: HiBase,  
Working volume (well): 3  $\mu$ l - 10  $\mu$ l, Lid: no

| Item no. | Bottom       | Binding characterisitc | Binding brand name | Surface treatment | Product colour | Sterile | Qty. inner / outer |
|----------|--------------|------------------------|--------------------|-------------------|----------------|---------|--------------------|
| 782101   | solid        |                        |                    | untreated         | ○ clear        |         | 15 / 60            |
| 782061   | solid        | high-binding           | MICROLON 600       |                   | ○ clear        | +       | 15 / 60            |
| 782075   | solid        |                        |                    | untreated         | ○ white        |         | 15 / 60            |
| 782074   | solid        | high-binding           | LUMITRAC 600       |                   | ○ white        | +       | 15 / 60            |
| 782076   | solid        |                        |                    | untreated         | ● black        |         | 15 / 60            |
| 782077   | solid        | high-binding           | FLUOTRAC 600       |                   | ● black        | +       | 15 / 60            |
| 782095   | $\mu$ Clear® |                        |                    | untreated         | ○ white        |         | 15 / 60            |
| 782097   | $\mu$ Clear® | high-binding           |                    |                   | ● black        | +       | 15 / 60            |
| 782096   | $\mu$ Clear® |                        |                    | untreated         | ● black        |         | 15 / 60            |



- / Compound storage plates for acoustic liquid handling can also be found in this chapter.



## POLYPROPYLENE STORAGE PLATES

**Greiner Bio-One polypropylene microplates are perfect storage plates for active agents, patient samples or biomolecules.**

Their most important properties are biological inertness, resistance to numerous solvents commonly used in the laboratory, such as DMSO and high temperature resistance. The footprint

is compatible with automated systems.

The microplates are also characterised by elevated well walls which make it possible to easily seal them. The portfolio ranges from the 96 well MASTERBLOCK® with volumes of 0.5 ml, 1 ml or 2 ml over a MASTERBLOCK® with 384 wells or 1536 wells up to the 96 well storage box.

- / Ideally suited for the storage of active agents, DNA/RNA or stock cultures
- / High chemical resistance and temperature tolerance





FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
pyrogenic

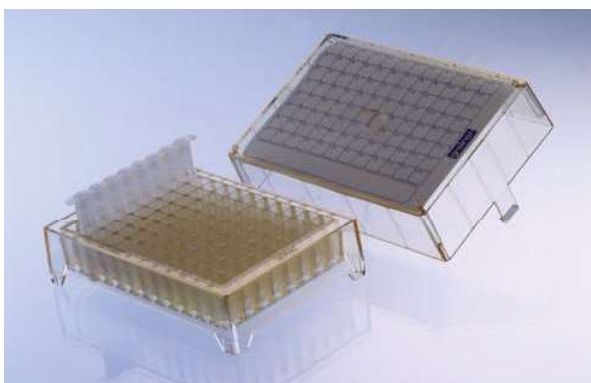
### 96 Well MASTERBLOCK®

#### Polypropylene

- / Ideal for storing non-human sample material and cultivating bacteria / yeast
- / Uniform external dimensions and tolerances
- / Alphanumeric well coding
- / Sealable with adhesive films and heat sealers
- / Sealable with CapMats

Well format: 96, Bottom: solid, Raw material: PP

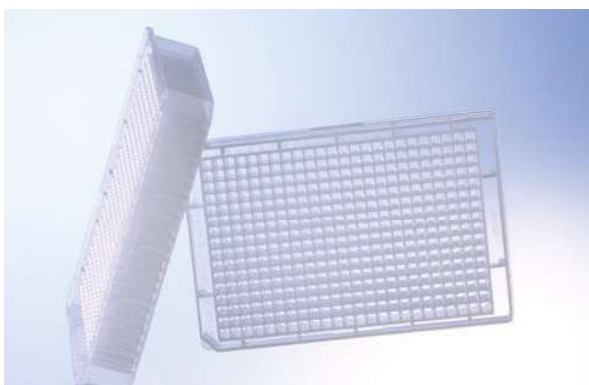
| Item no. | Well profile | Product colour | Total volume (well) | Lid                   | Sterile | Qty. inner / outer |
|----------|--------------|----------------|---------------------|-----------------------|---------|--------------------|
| 780201   | U-bottom     | ○ natural      | 1 ml                | CapMat 381070, 381061 |         | 1 / 50             |
| 780261   | U-bottom     | ○ natural      | 1 ml                | CapMat 381070, 381061 | +       | 1 / 50             |
| 780215   | U-bottom     | ○ natural      | 1 ml                | CapMat 381070, 381061 |         | 5 / 50             |
| 786201   | V-bottom     | ○ natural      | 0.5 ml              | CapMat 381070, 381061 |         | 8 / 80             |
| 786261   | V-bottom     | ○ natural      | 0.5 ml              | CapMat 381070, 381061 | +       | 1 / 80             |
| 780270   | V-bottom     | ○ natural      | 2 ml                | CapMat 381080, 381081 |         | 1 / 50             |
| 780271   | V-bottom     | ○ natural      | 2 ml                | CapMat 381080, 381081 | +       | 1 / 50             |
| 780285   | V-bottom     | ○ natural      | 2 ml                | CapMat 381080, 381081 |         | 5 / 50             |



### 96 Well Storage Box

- / Storage box made of polycarbonate
- / With / without 96 polypropylene vessels
- / Coding card included
- / All components autoclavable

| Item no. | Sterile | Qty. inner / outer |
|----------|---------|--------------------|
| 975502   |         | 1 / 120            |
| 975561   | +       | 1 / 50             |
| 975570   |         | 1 / 50             |



FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase



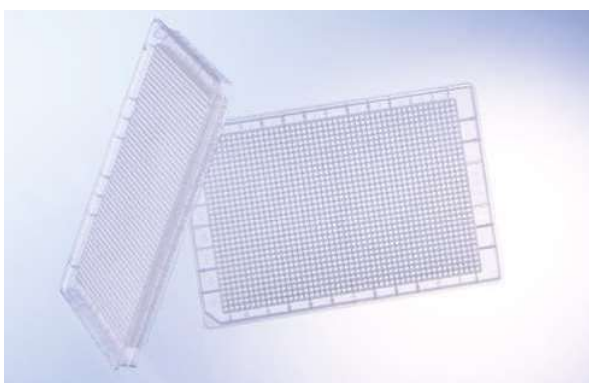
### 384 Deep Well MASTERBLOCK®

#### Polypropylene

- / Ideal for compound libraries and applications with larger volumes
- / Conical well shape for precise pipetting
- / Alphanumeric well coding
- / Sealable with adhesive films and heat sealers

Well format: 384, Well profile: V-bottom, Bottom: solid, Raw material: PP, Plate geometry: Deep Well, Lid: no

| Item no. | Product colour                | Sterile | Qty. inner / outer |
|----------|-------------------------------|---------|--------------------|
| 781270   | <input type="radio"/> natural |         | 6 / 60             |
| 781271   | <input type="radio"/> natural | +       | 6 / 60             |



FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase



### 1536 Deep Well Microplates

#### Polypropylene

- / Uniform external dimensions and tolerances
- / Total volume of 18 µl
- / Alphanumeric well coding
- / Sealable with adhesive films and heat sealers

Well format: 1536, Well profile: V-bottom, Bottom: solid, Raw material: PP, Plate geometry: Deep Well,  
Working volume: 3 µl - 15 µl, Lid: no

| Item no. | Product colour                | Sterile | Qty. inner / outer |
|----------|-------------------------------|---------|--------------------|
| 782261   | <input type="radio"/> natural | +       | 15 / 60            |
| 782270   | <input type="radio"/> natural |         | 15 / 60            |

## HTS-Microplates

Microplates for Compound Storage



/ Watch our video:



### MICROPLATES FOR COMPOUND STORAGE

Polypropylene is still the material of choice for storage plates, but the material class of cycloolefins is becoming more routinely used because of its unsurpassed performance for a wide range of applications.

In compound storage, plates made from cycloolefins offer the

best combination of chemical resistance to polar solvents, like DMSO, and optical clarity. In addition, the dimensional stability and glass-like optical properties make this material ideally suited for plates in fully automated systems.

- / Suited for compound storage
- / Resistant against polar solvents
- / Excellent water and vapour barrier function
- / Almost no leachables
- / Low biomolecule binding
- / Glass-like optical properties



**Microplates for Compound Storage**

**384 and 1536 Well**

Microplates for Acoustic Liquid Handling

- / Stringent production specifications for a constant bottom quality
- / Microplates are deionised and packed in antistatic bags

Well profile: F-bottom, Bottom: solid, Lid: no

| Item no.   | Well format | Raw material | Surface treatment | Product colour | Plate geometry | Plate design | Working volume (well) | Qty. inner / outer |
|------------|-------------|--------------|-------------------|----------------|----------------|--------------|-----------------------|--------------------|
| 781201-906 | 384         | PP           | untreated         | ○ natural      |                |              | 15 µl - 145 µl        | 10 / 100           |
| 793855     | 384         | cycloolefin  |                   | ○ clear        | HiBase         | Small Volume | 1 µl - 25 µl          | 15 / 60            |
| 782855     | 1536        | cycloolefin  |                   | ○ clear        | HiBase         |              | 1 µl - 10 µl          | 15 / 60            |
| 792870-906 | 1536        | cycloolefin  |                   | ○ clear        |                |              | 1 µl - 14 µl          | 15 / 60            |



/ For more detailed information on well profiles and technical details please refer to our data sheets on our website: [www.gbo.com](http://www.gbo.com)

## **NON-BINDING MICROPLATES**

**Polystyrene microplates with non-treated surfaces are commonly used for homogeneous biochemical HTS assays and demonstrate low and reproducible biomolecule binding.**

However, even low amounts of biomolecular binding (e. g. DNA, RNA, proteins, peptides) can cause an undesirable increase in background, resulting in decreased signal-to-noise ratio.

Greiner Bio-One's non-binding microplate surfaces prevent unwanted non-specific binding, especially advantageous for sensitive biochemical assays. Characterised by low protein, DNA, RNA and peptide binding properties the non-binding surfaces significantly increase assay sensitivity by reducing background and improving signal-to-noise ratio.

- / 96 / 384 / 1536 well format
- / Clear / black / white
- / Solid bottom or  $\mu$ Clear® film bottom
- / Ultra low non-specific biomolecular binding properties
- / Long-term surface stability without degradation or leaching



FREE OF detectable DNase    FREE OF detectable human DNA    FREE OF detectable RNase    non-pyrogenic

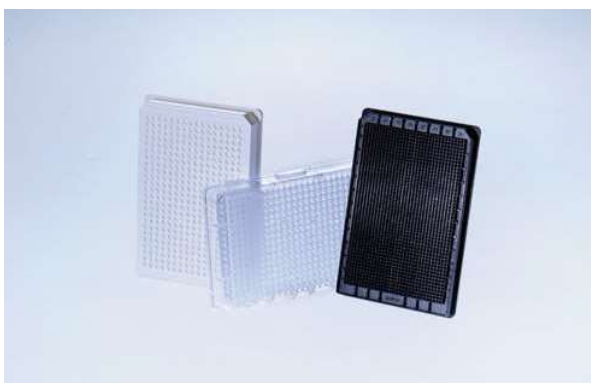
### Non-binding Microplates

#### 96 Well

- / Clear / black / white
- / U-bottom, V-bottom or F-bottom/chimney well
- / Solid bottom or  $\mu$ Clear® film bottom

Well format: 96, Raw material: PS, Binding characterisitc: Non-binding, Lid: no

| Item no. | Well profile            | Bottom       | Product colour | Working volume (well)    | Qty. inner / outer |
|----------|-------------------------|--------------|----------------|--------------------------|--------------------|
| 650901   | U-bottom                | solid        | ○ clear        | 40 $\mu$ l - 280 $\mu$ l | 10 / 40            |
| 651901   | V-bottom                | solid        | ○ clear        | 40 $\mu$ l - 200 $\mu$ l | 10 / 40            |
| 655901   | F-bottom / Chimney Well | solid        | ○ clear        | 25 $\mu$ l - 340 $\mu$ l | 10 / 40            |
| 655904   | F-bottom / Chimney Well | solid        | ○ white        | 25 $\mu$ l - 340 $\mu$ l | 10 / 40            |
| 655900   | F-bottom / Chimney Well | solid        | ● black        | 25 $\mu$ l - 340 $\mu$ l | 10 / 40            |
| 655903   | F-bottom / Chimney Well | $\mu$ Clear® | ○ white        | 25 $\mu$ l - 340 $\mu$ l | 10 / 40            |
| 655906   | F-bottom / Chimney Well | $\mu$ Clear® | ● black        | 25 $\mu$ l - 340 $\mu$ l | 10 / 40            |



FREE OF detectable DNase    FREE OF detectable human DNA    FREE OF detectable RNase    non-pyrogenic

### Non-binding Microplates

#### 384 and 1536 Well

- / Clear / black / white
- / With F-bottom or as Small Volume option
- / Solid bottom or  $\mu$ Clear® film bottom

Well profile: F-bottom, Raw material: PS, Binding characterisitc: Non-binding, Lid: no

| Item no. | Well format | Bottom       | Product colour | Plate geometry | Plate design | Working volume (well)    | Qty. inner / outer |
|----------|-------------|--------------|----------------|----------------|--------------|--------------------------|--------------------|
| 781901   | 384         | solid        | ○ clear        |                |              | 15 $\mu$ l - 110 $\mu$ l | 10 / 40            |
| 781904   | 384         | solid        | ○ white        |                |              | 15 $\mu$ l - 110 $\mu$ l | 10 / 40            |
| 781900   | 384         | solid        | ● black        |                |              | 15 $\mu$ l - 110 $\mu$ l | 10 / 40            |
| 781903   | 384         | $\mu$ Clear® | ○ white        |                |              | 15 $\mu$ l - 110 $\mu$ l | 10 / 40            |



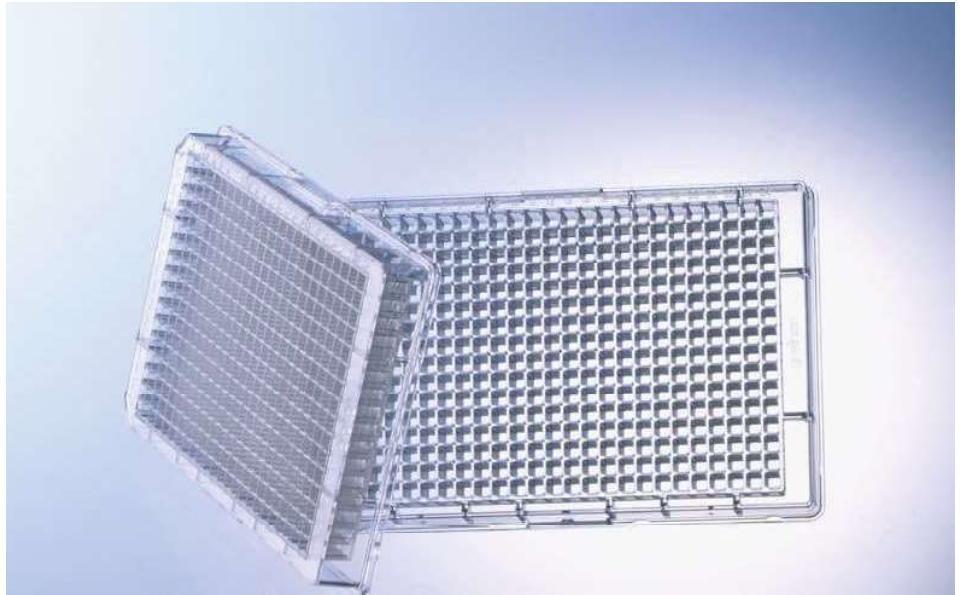
## HTS-Microplates

Non-binding Microplates

| Item no. | Well format | Bottom  | Product colour | Plate geometry | Plate design | Working volume (well) | Qty. inner / outer |
|----------|-------------|---------|----------------|----------------|--------------|-----------------------|--------------------|
| 781906   | 384         | µClear® | ● black        |                |              | 15 µl - 110 µl        | 10 / 40            |
| 784904   | 384         | solid   | ○ white        | HiBase         | Small Volume | 4 µl - 25 µl          | 10 / 40            |
| 784900   | 384         | solid   | ● black        | HiBase         | Small Volume | 4 µl - 25 µl          | 10 / 40            |
| 782904   | 1536        | solid   | ○ white        | HiBase         |              | 3 µl - 10 µl          | 15 / 60            |
| 782900   | 1536        | solid   | ● black        | HiBase         |              | 3 µl - 10 µl          | 15 / 60            |



- / For more detailed information on well profiles and technical details please refer to our data sheets on our website: [www.gbo.com](http://www.gbo.com)



## **STREPTAVIDIN-COATED MICROPLATES**

**Streptavidin-coated solid phases serve as reliable binding surfaces for all types of biotinylated molecules.**

Numerous ligands can be biotinylated simply and due to the low molecular weight of biotin (244 Da) the functionality of the molecules is normally not impaired. Thus streptavidin-coated solid phases make it possible to rapidly isolate, determine and quantify components from a reaction mixture. By immobilising the bi-

otinylated substance, it is also possible to reproduce complete reaction chains on a streptavidin solid phase, e. g. enzyme immunoassays, enzyme activity assays, DNA hybridisation techniques and quantification of PCR products.

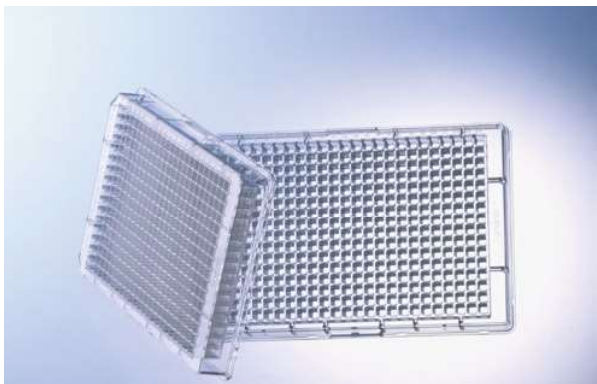
The high-purity streptavidin is bound to the plate surface in a uniform and stable layer. The coefficient of variation from well to well is under 5 % for 96 well microplates and under 8 % for 384 well microplates.

- / Available in 96 well and 384 well format
- / Clear / black / white
- / 3-year shelf life at room temperature
- / All plates pre-blocked and ready-to-use



## HTS-Microplates

Streptavidin-coated Microplates



### Streptavidin-coated Microplates 96 and 384 Well

- / Long shelf life at room temperature
- / Lot number on each pack
- / Pre-blocked with BSA

Bottom: solid, Raw material: PS, Surface treatment: Streptavidin, Lid: no

| Item no. | Well format | Well profile | Product colour | Qty. inner / outer |
|----------|-------------|--------------|----------------|--------------------|
| 655990   | 96          | C-bottom     | ○ clear        | 5 / 40             |
| 655995   | 96          | C-bottom     | ○ white        | 5 / 40             |
| 655997   | 96          | C-bottom     | ● black        | 5 / 40             |
| 781990   | 384         | F-bottom     | ○ clear        | 5 / 40             |
| 781995   | 384         | F-bottom     | ○ white        | 5 / 40             |
| 781997   | 384         | F-bottom     | ● black        | 5 / 40             |

/ Further streptavidin-coated microplates are available on request.



- / Application Note: UV/  
VIS Spectroscopy in  
Microplates UV-Star®,  
µClear®, MICROLON and  
CELLSTAR®



## UV-STAR® MICROPLATES

**UV / VIS spectroscopy is a classical analytical method for determining the chemical constitution of a substance and its concentration in aqueous solution.**

UV / VIS spectroscopy is usually conducted in quartz glass cuvettes. However, cuvettes do not provide sufficient throughput when dealing with large amounts of samples, and microplates can be used to speed up work. Standard polystyrene microplates are only partially suitable for transmission measurements in the UV. Polystyrene absorbs UV especially in the short-wavelength range (< 320 nm). µClear® microplates with a thin polystyrene film base al-

ready have much lower background values and can be used up to 340 nm without any problem. The adaptation of the patented µClear® process technology to a new, innovative UV-transparent material has made it possible to produce microplates that extend the transmission range up to 230 nm. For the determination of nucleic acid and protein concentrations at 260 nm or 280 nm without background interference UV-Star® microplates are the ideal alternative to expensive and fragile quartz glass plates or cuvettes. UV-Star® plates are also DMSO-resistant and can be stored at -20 °C without any problem.

- / Available in 96 well and 384 well format
- / With cycloolefin film bottom
- / Optical window down to 230 nm ideal for nucleic acid determinations at 260 nm/280 nm
- / For measurements of protein concentration at 280 nm



**UV-Star® Microplates**

- / Available in 96 well and 384 well format
- / With cycloolefin film bottom
- / Optical window down to 230 nm ideal for nucleic acid determinations at 260 nm/280 nm
- / For measurements of protein concentration at 280 nm

FREE OF  
detectable  
DNase

FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
cytotoxic

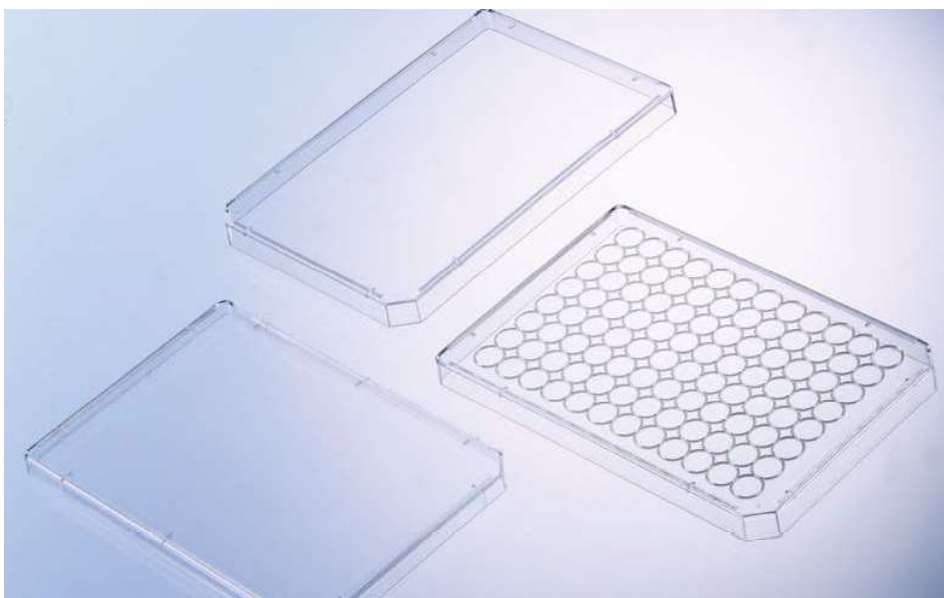
 non-  
pyrogenic

Well profile: F-bottom, Bottom: Cycloolefin film, Raw material: COC, Surface treatment: untreated, Lid: no

| Item no. | Well format | Product colour | Plate design | Working volume (well) | Qty. inner / outer |
|----------|-------------|----------------|--------------|-----------------------|--------------------|
| 675801   | 96          | ○ clear        | half area    | 15 µl - 175 µl        | 10 / 40            |
| 655801   | 96          | ○ clear        |              | 25 µl - 340 µl        | 10 / 40            |
| 781801   | 384         | ○ clear        |              | 15 µl - 110 µl        | 10 / 40            |



- / Forum No 6: Sealers for microplates and their areas of application in molecular biology and cell culture (F073013)



## LIDS / SEALERS / CAPMATS

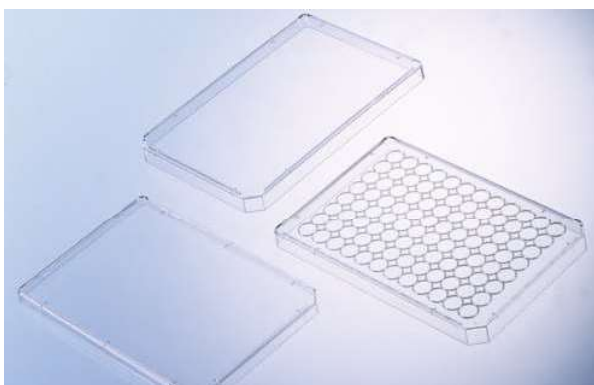
- / Polystyrene lids in three different profile heights with and without condensation rings
- / Classical adhesive films coated with acrylate adhesive as well as advanced adhesive films with pressure-sensitive silicone adhesive
- / EVA CapMats for sealing of 96 well plates

**Lids offer protection against contamination and evaporation during sample storage and cell cultivation.**

In addition, Greiner Bio-One offers a full set of adhesive **sealers** for a wide range of routine and specialised applications, e.g. high-throughput screen-

ing, immunology, microbiology, molecular biology and PCR.

An alternative method for sealing 96 well plates are CapMats. They are made of ethyl vinyl acetate (EVA), are resistant to DMSO and can be used in a temperature range between -20 °C and +60 °C. CapMats are not pierceable.



FREE OF detectable DNase

FREE OF detectable human DNA

FREE OF detectable RNase

 non-pyrogenic

## Lids

All sterile lids are non-cytotoxic.

Description: Lid, Raw material: PS

| Item no. | Height | Condensation rings | Lid type  | Sterile | Qty. inner / outer |
|----------|--------|--------------------|-----------|---------|--------------------|
| 656101   | 9 mm   | no                 | high      |         | 1 / 100            |
| 656161   | 9 mm   | no                 | high      | +       | 1 / 100            |
| 656170   | 9 mm   | yes                | high      |         | 1 / 100            |
| 656171   | 9 mm   | yes                | high      | +       | 1 / 100            |
| 656190   | 6 mm   | no                 | flat      |         | 20 / 200           |
| 656191   | 6 mm   | no                 | flat      | +       | 20 / 200           |
| 691101   | 4.8 mm | no                 | ultra low |         | 25 / 100           |
| 691161   | 4.8 mm | no                 | ultra low | +       | 5 / 100            |



## Sealers

The classical sealers such as EASYseal, AMPLIseal, SILVERseal and BREATHseal are coated with an acrylate adhesive. The advanced sealer VIEWseal is coated with a pressure-sensitive silicone adhesive.

| Item no. | Description | Feature        | Pierceable | Sterile | Qty. inner / outer |
|----------|-------------|----------------|------------|---------|--------------------|
| 676001   | EASYseal    | clear          |            |         | 100 / 2,000        |
| 676090   | SILVERseal  | aluminium foil | yes        |         | 100 / 1,200        |
| 676070   | VIEWseal    | clear          |            |         | 100 / 1,200        |
| 676040   | AMPLIseal   | clear          |            |         | 100 / 2,000        |
| 676050   | BREATHseal  | gas-permeable  |            |         | 50 / 2,500         |

| Item no. | Description | Feature       | Pierceable | Sterile | Qty. inner / outer |
|----------|-------------|---------------|------------|---------|--------------------|
| 676051   | BREATHseal  | gas-permeable |            | +       | 50 / 500           |

/ Forum No. 6: Sealers for microplates and their areas of application in molecular biology and cell culture(F073013)



### CapMats

- / Made of ethyl vinyl acetate (EVA)
- / Available for 96 well microplates and MASTER-BLOCK®
- / Sterile / non-sterile

FREE OF  
detectable  
DNase

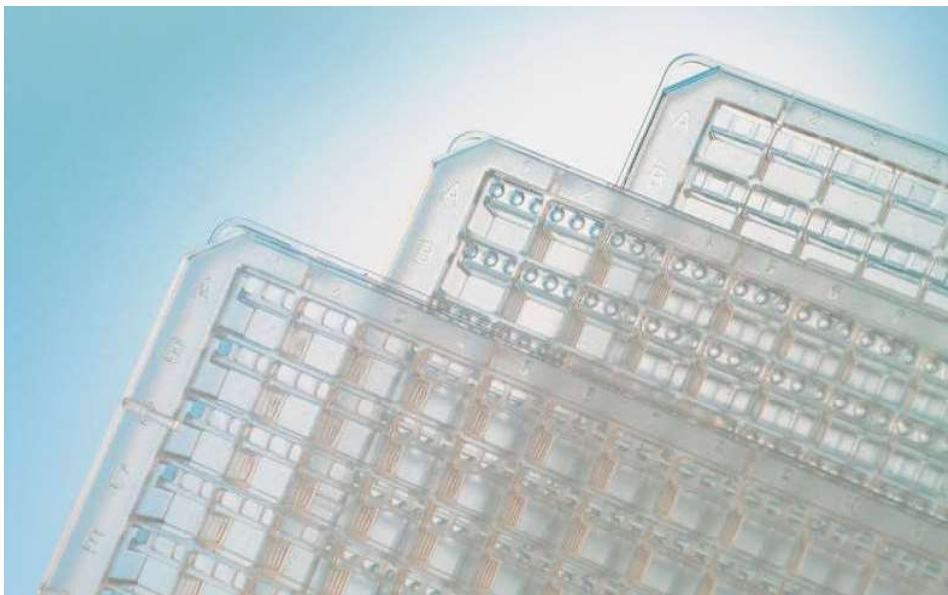
FREE OF  
detectable  
human DNA

FREE OF  
detectable  
RNase

 non-  
pyrogenic

Description: 96 Well CapMat, Pierceable: no, Raw material: EVA

| Item no. | Nap shape | Sterile | Qty. inner / outer |
|----------|-----------|---------|--------------------|
| 381070   | round     |         | 10 / 50            |
| 381061   | round     | +       | 1 / 50             |
| 381080   | square    |         | 10 / 50            |
| 381081   | square    | +       | 1 / 50             |



/ Forum No. 7: Advanced high-throughput platforms for protein crystallisation (F073016)

## PROTEIN CRYSTALLISATION PLATES

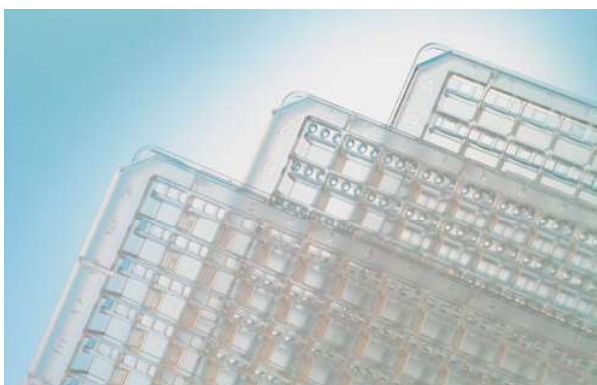
Detailed knowledge of interactions between the structure and function of biomolecules is fundamental for biological, medical and pharmaceutical research. A reliable method is the X-ray structure analysis of protein crystals.

In order to show three-dimensional molecular structures, the proteins must first be crystallised. Since every protein is different and a variety of factors influence protein crystallisation, the optimal conditions are usually tested with high-throughput technologies (pipetting robots).

Greiner Bio-One has specially developed microplates and accessories of the CrystalStar series to meet the requirements of high-throughput crystallisation in a short time and with relatively small amounts of protein. Techniques such as vapour diffusion (sitting drop, hanging drop) and microbatch under oil can be carried out effectively.

Plates with **hydrophobic** surface are particularly well suited for nanolitre crystallisation of membrane proteins. **LBR (low birefringence)** plates are specifically designed for the use of polarised light.

- / For vapour diffusion or microbatch under oil
- / Made of polystyrene or polyolefin (LBR plates)
- / Footprint conforming to ANSI 1-2004 (except Terasaki plates)
- / Barcode labelling on request
- / CrystalQuick plates with alphanumeric well coding



**96 Well CrystalQuick /  
CrystalQuick Plus Plates**

- / Crystallisation plates for sitting drop applications with different well profiles and material properties
- / Optimised for sealing with VIEWseal or AMPLiseal
- / Alphanumeric well coding

| Item no. | Height  | Material properties | Well profile | Plate design | Well / reservoir | Well volume, max | Volume per reservoir | Qty. inner / outer |
|----------|---------|---------------------|--------------|--------------|------------------|------------------|----------------------|--------------------|
| 609171   | 8 mm    | standard            | flat         | square (LP)  | 1                | 3.9 µl           | 140 µl               | 20 / 80            |
| 609180   | 8 mm    | hydrophobic         | flat         | square (LP)  | 1                | 3.9 µl           | 140 µl               | 20 / 80            |
| 609871   | 8 mm    | LBR                 | flat         | square (LP)  | 1                | 3.9 µl           | 140 µl               | 20 / 80            |
| 609101   | 14.4 mm | standard            | flat         | square (SW)  | 3                | 4.1 µl           | 320 µl               | 10 / 40            |
| 609120   | 14.4 mm | standard            | concave      | round (RW)   | 3                | 1.9 µl           | 320 µl               | 10 / 40            |
| 609130   | 14.4 mm | hydrophobic         | flat         | square (SW)  | 3                | 4.1 µl           | 320 µl               | 10 / 40            |
| 609801   | 14.4 mm | LBR                 | flat         | square (SW)  | 3                | 4.1 µl           | 320 µl               | 10 / 40            |
| 609820   | 14.4 mm | LBR                 | concave      | round (RW)   | 3                | 1.9 µl           | 320 µl               | 10 / 40            |
| 609830   | 14.4 mm | LBR, hydrophobic    | flat         | square (SW)  | 3                | 4.1 µl           | 320 µl               | 10 / 40            |



**24 Well ComboPlate  
CrystalBridge / Coverslips**

- / Universal 24 well crystallisation plate with coverslips and CrystalBridge for sitting drop applications
- / Siliconised coverslips available

| Item no. | Description            | Feature                          | Well format | Ø well  | Bottom shape | Well volume, max | Lid | Qty. inner / outer |
|----------|------------------------|----------------------------------|-------------|---------|--------------|------------------|-----|--------------------|
| 662150   | ComboPlate             |                                  | 24          | 16.3 mm | flat         | 3,300 µl         | yes | 6 / 24             |
| 662145   | CrystalBridge          |                                  | 1           | 4.6 mm  | concave      | 45 µl            | no  | - / 250            |
| 501870   | round coverslips 18 mm | siliconised glass 0.19 - 0.22 mm |             |         |              |                  |     | 100 / 1,000        |



| Item no. | Description            | Feature                          | Well format | Ø well | Bottom shape | Well volume, max | Lid | Qty. inner / outer |
|----------|------------------------|----------------------------------|-------------|--------|--------------|------------------|-----|--------------------|
| 503870   | round coverslips 22 mm | siliconised glass 0.19 - 0,22 mm |             |        |              |                  |     | 100 / 1.000        |
| 503850   | round coverslips 22 mm | siliconised glass 0.5 - 0,6 mm   |             |        |              |                  |     | 100 / 1,000        |

/ Siliconised coverslips for Linbro plates (round, ø 22 mm) are available on request.



**Terasaki Plates**  
**60 and 72 Well**

- / For microbatch under oil applications
- / Conical well geometry
- / Plate rim facilitates filling of all wells at the same time
- / With lid

*Height: 83.3 mm, Length: 58 mm, Width: 10 mm, Ø well bottom: 1.3 mm, Well profile: flat, Well volume, max: 11.5 µl, Working volume (well): ≤10 µl*

| Item no. | Well format | Qty. inner / outer |
|----------|-------------|--------------------|
| 653102   | 60          | 10 / 580           |
| 654102   | 72          | 10 / 270           |

/ For Terasaki plates with TC treatment, please refer to chapter Immunology.





For the handling and analysis of chemical and biological samples with small or medium volumes, Greiner Bio-One offers a wide range of different analyser cups and reaction vessels with corresponding closures and cuvettes.