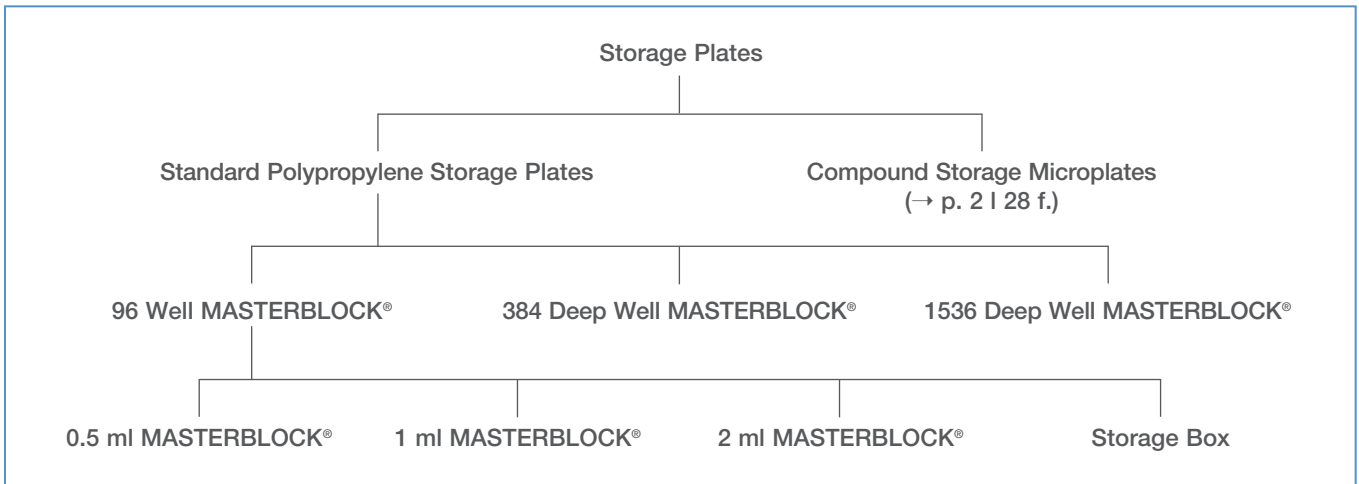


# Storage Plates

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 temperature resistance from -196 °C to +121 °C.

The footprint is compatible with automated systems. The microplates are also characterised by elevated well walls which make it possible to easily seal them.



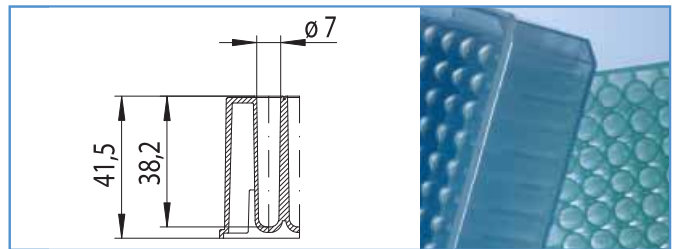
- Further 96 well polypropylene microplates can be found on p. 2 | 10
- Further 384 well polypropylene microplates can be found on p. 2 | 15

- Compound storage microplates can be found on p. 2 | 28

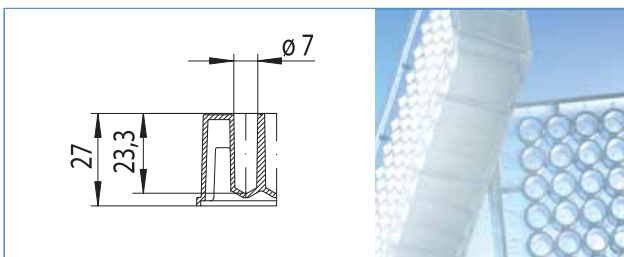
## 96 Well Polypropylene MASTERBLOCK®

The 0.5 ml, 1 ml, and 2 ml MASTERBLOCK® (Fig. 1 – 3) are ideal microplates for storing non-human sample material but are also ideal for cultivating bacteria or yeast.

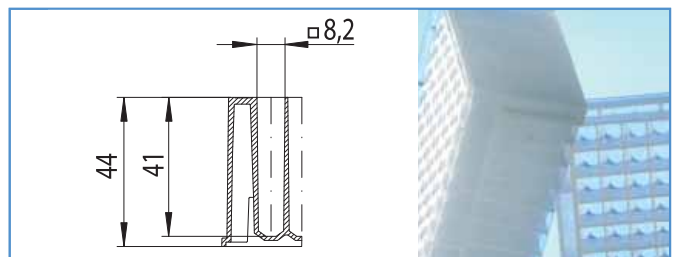
- Uniform external dimensions and tolerances
- Alphanumeric well coding
- High chemical resistance
- High temperature resistance (-196 °C to +121 °C)
- Sealable with adhesive films and heat sealer
- Sealable with CapMats (→ p. 12 | 7)
- Available in natural, red, green, yellow or blue
- Available sterile or non-sterile
- Barcode-labelled on request (→ p. 14 | 4)



**Figure 2:**  
Well profile: 1 ml MASTERBLOCK®, polypropylene  
Total volume: 1.22 ml  
Working volume: 0.05 – 1.1 ml (at RT)  
0.05 – 1.0 ml (at -20 °C)



**Figure 1:**  
Well profile: 0.5 ml MASTERBLOCK®, polypropylene  
Total volume: 0.78 ml  
Working volume: 0.03 – 0.65 ml (at RT)  
0.03 – 0.55 ml (at -20 °C)



**Figure 3:**  
Well profile: 2 ml MASTERBLOCK®, polypropylene  
Total volume: 2.42 ml  
Working volume: 0.1 – 2.1 ml (at RT)  
0.1 – 2.0 ml (at -20 °C)

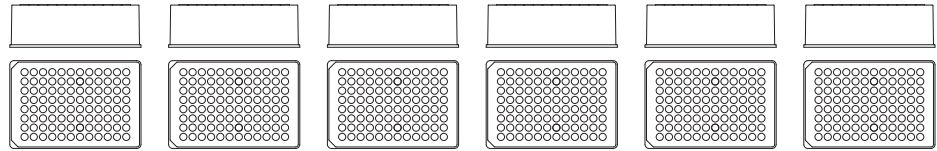


## 96 Well MASTERBLOCK® 1 ml

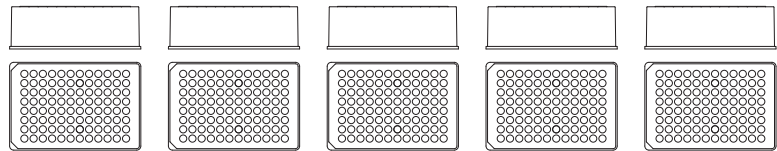
▶ 96 Well Polypropylene Microplates p. 2 | 10

▶ CapMats p. 12 | 7

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic



Cat.-No.	780 201	780 215	780 206	780 203	780 204	780 205
Volume [ml]	1	1	1	1	1	1
Well profile	U-bottom	U-bottom	U-bottom	U-bottom	U-bottom	U-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	natural	natural	yellow	red	blue	green
Binding	-	-	-	-	-	-
Sterile	-	-	-	-	-	-
Suitable CapMats, Cat.-No.	381 070, 381 061	381 070, 381 061	381 070, 381 061	381 070, 381 061	381 070, 381 061	381 070, 381 061
Quantity per bag/case	1/50	5/50	1/50	1/50	1/50	1/50



Cat.-No.	780 261	780 263	780 264	780 265	780 266
Volume [ml]	1	1	1	1	1
Well profile	U-bottom	U-bottom	U-bottom	U-bottom	U-bottom
Bottom	solid	solid	solid	solid	solid
Colour	natural	red	blue	green	yellow
Binding	-	-	-	-	-
Sterile	+	+	+	+	+
Suitable CapMats, Cat.-No.	381 070, 381 061	381 070, 381 061	381 070, 381 061	381 070, 381 061	381 070, 381 061
Quantity per bag/case	1/50	1/50	1/50	1/50	1/50

1 Cell/  
Tissue Culture

2 HTS-  
Microplates

3 Immunology/  
HLA

4 Microbiology/  
Bacteriology

5 Tubes/Multi-  
Purpose Beakers

6 Liquid  
Handling

7 Molecular  
Biology

8 Protein  
Crystallisation

9 Separation

10 Biochips/  
Microfluidics

11 Cryo-  
Technics

12 Lids/Sealers/  
CapMats

13 Reaction Tubes/  
Analyser Cups

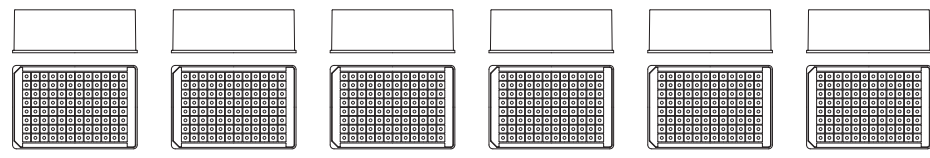
14 Accessories



### 96 Well MASTERBLOCK® 2 ml and 0.5 ml

- ▶ 96 Well Polypropylene Microplates p. 2 | 10
- ▶ CapMats p. 12 | 7

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic



Cat.-No.	780 270	780 271	780 273	780 274	780 275	780 276
Volume [ml]	2	2	2	2	2	2
Well profile	V-bottom	V-bottom	V-bottom	V-bottom	V-bottom	V-bottom
Bottom	solid	solid	solid	solid	solid	solid
Colour	natural	natural	red	blue	green	yellow
Binding	-	-	-	-	-	-
Sterile	-	+	+	+	+	+
Suitable CapMats, Cat.-No.	381 080, 381 081	381 080, 381 081	381 080, 381 081	381 080, 381 081	381 080, 381 081	381 080, 381 081
Quantity per bag/case	1/50	1/50	1/50	1/50	1/50	1/50

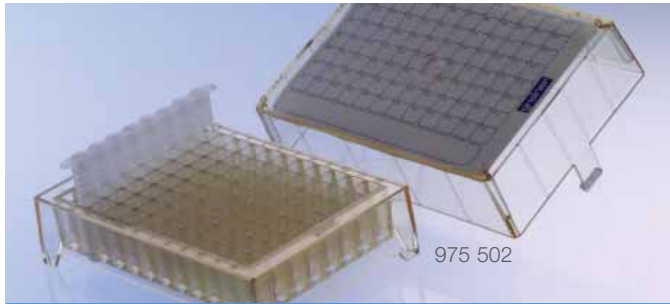


Cat.-No.	780 285	Cat.-No.	786 201	786 261
Volume [ml]	2	Volume [ml]	0.5	0.5
Well profile	V-bottom	Well profile	V-bottom	V-bottom
Bottom	solid	Bottom	solid	solid
Colour	natural	Colour	natural	natural
Binding	-	Binding	-	-
Sterile	-	Sterile	-	+
Suitable CapMats, Cat.-No.	381 080, 381 081	Suitable CapMats, Cat.-No.	381 070, 381 061	381 070, 381 061
Quantity per bag/case	5/50	Quantity per bag/case	8/80	1/80

## 96 Well Storage Box

The Greiner Bio-One storage box system in microplate format meets all requirements. It comes with a coding card, which enables proper storage of samples, and the temperature resistance of the polypropylene vessels from -80 °C to +121 °C provides for a broad range of applications. All components of the storage box are autoclavable. The box has space for 96 vessels with a capacity of 1.3 ml each.

The individual vessels are made of biologically inert polypropylene, while the storage box itself is made of polycarbonate (PC). The storage box comes with a lid, ID-card and with/without 96 PP-vessels with mounted adhesive strips, and can be supplied both sterile and non-sterile.



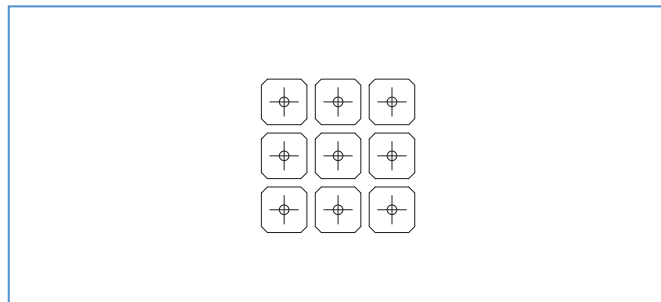
### 96 Well Storage Box

↳ Tubes for Storage Box p. 5 | 4

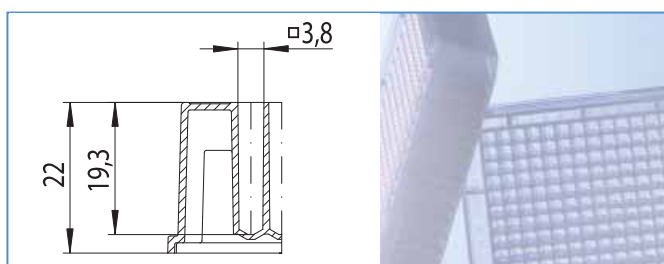
Cat.-No.	975 502	975 561	975 570
Material	PC	PC	PC
Incl. 96 polypropylene vessels, inserted	-	+	+
Sterile	-	+	-
ID card	+	+	+
Quantity per bag/case	1	50	50

## 384 Deep Well Polypropylene MASTERBLOCK®

In addition to the 384 well polypropylene microplates with F-bottom and V-bottom, a 384 well MASTERBLOCK® extends the range of polypropylene microplates. The innovative design of the Deep Well MASTERBLOCK® enables numerous applications in which larger volumes are required. The MASTERBLOCK® is ideal for compound libraries and the storage of samples in general. The conical shape of the wells (Fig. 1 and 2) enables precise pipetting down to the last drop. The standardised external dimensions and the tight tolerances make liquid handling easier for robotics. The MASTERBLOCK® is also available barcode-labelled on request (→ p. 14 | 4).



**Figure 2:**  
Rounded square well design



**Figure 1:**  
Well profile: 384 Deep Well MASTERBLOCK®, polypropylene  
Total volume: 240 µl  
Working volume: 20 – 225 µl

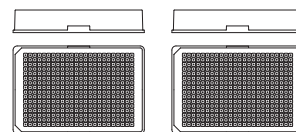


### 384 Deep Well MASTERBLOCK®

▶ 384 Well Polypropylene Microplates p. 2 | 15

- Alphanumeric well coding
- High chemical resistance
- High temperature resistance (-196 °C to +121 °C)
- Sealable with adhesive films and heat sealer

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

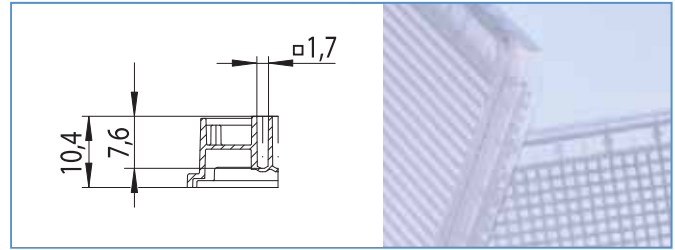


Cat.-No.	781 270	781 271
Well profile	V-bottom	V-bottom
Bottom	solid	solid
Colour	natural	natural
Binding	-	-
Sterile	-	+
Lid	-	-
Quantity per bag/case	6/60	6/60
Plate design	Deep Well	Deep Well

## 1536 Deep Well Polypropylene Microplates

The product range of the 1536 well polystyrene microplates is extended by a polypropylene storage plate (Deep Well microplate) with a total volume of 18 µl. The working volume of this plate is between 3 and 15 µl (Fig. 1).

- Uniform external dimensions and tolerances
- Alphanumeric well coding
- High chemical resistance
- High temperature resistance (-196 °C to +121 °C)
- Sealable with adhesive films and heat sealer

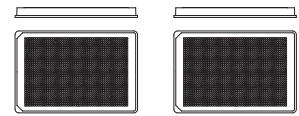


**Figure 1:**  
Well profile: 1536 Deep Well Microplate, polypropylene  
Total volume: 18 µl  
Working volume: 3 – 15 µl



Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic

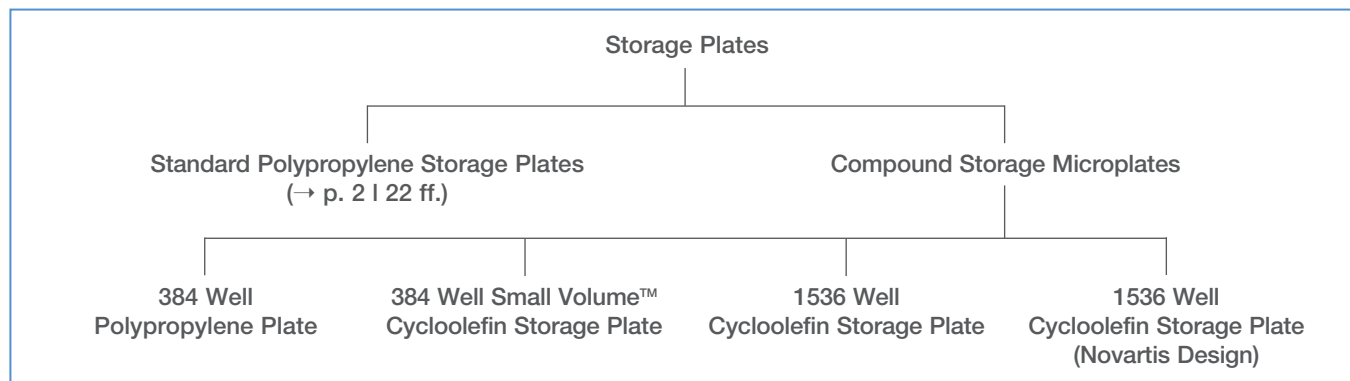
## 1536 Deep Well Polypropylene Microplates



Cat.-No.	782 261	782 270
Well profile	V-bottom	V-bottom
Bottom	solid	solid
Colour	natural	natural
Sterile	+	-
Lid	-	-
Quantity per bag/case	15/60	15/60
Plate design	Deep Well	Deep Well

# Compound Storage Microplates

## 384 Well and 1536 Well Microplates for Compound Storage



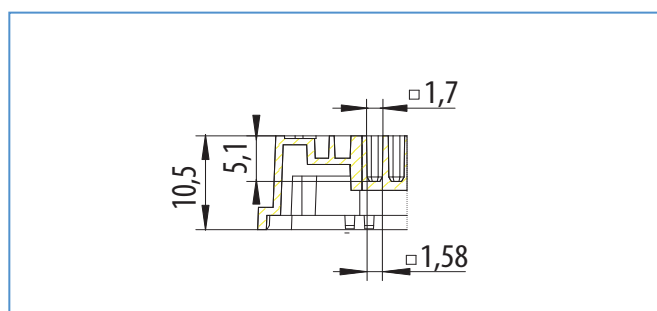
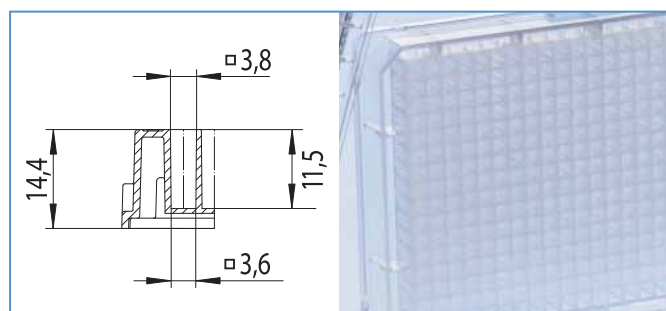
Polypropylene is still the material of choice for storage plates, but the material class of cycloolefins is becoming more routinely used because of its unsurpassed performance for a wide range of applications. In compound storage, plates made from cycloolefins offer the best combination of chemical resistance 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. (Detailed listing of the physical properties of cycloolefins → Technical Appendix).

Microplates made from cycloolefin offer the following advantages in compound storage:

- Resistant against polar solvents such as DMSO and alcohols
- Excellent water and vapour barrier function to minimise evaporation
- Nearly no extractables minimise leaching to avoid compound contamination
- Low biomolecule binding reduces the loss of compounds in storage and screening assays
- Glass-like optical properties for sensitive transmission and fluorescence measurements
- Superior mechanical stability and bottom thickness uniformity

### 384 Well Polypropylene Storage Plate

### 384 Well Small Volume™ Cycloolefin Storage Plate



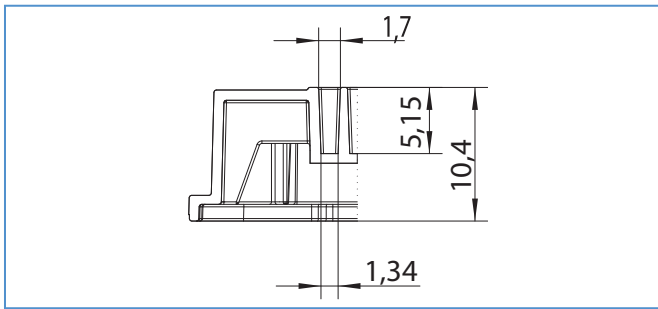
**Figure 1:**  
 Well profile: 384 well polypropylene storage plate  
 Total volume: 152 µl  
 Working volume: 15 – 145 µl

**Figure 2:**  
 Well profile: 384 well Small Volume™ cycloolefin storage plate

The 384 well polypropylene microplates are the classic storage plates. They can be easily sealed using commercially available heat-sealers and bind negligible amounts of proteins or active substances (Fig. 1).

The new 384 well Small Volume™ cycloolefin microplate reduces the dead volume in compound storage. (Fig. 2).

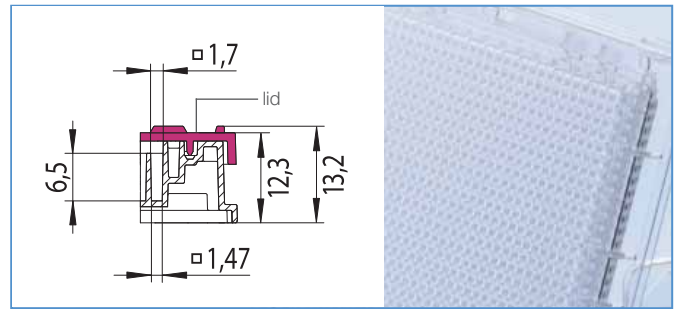
1536 Well Cycloolefin Storage Plate



**Figure 3:**  
Well profile: 1536 well cycloolefin storage plate  
Total volume: 12 µl  
Working volume: 1 – 10 µl

The new 1536 well cycloolefin storage plate allows the storage of non-human sample material in the 1536 well format and reduces the dead volume in compound storage. With a working volume of 1 - 10 µl this microplate is ideal for working with minimal sample volumes (Fig. 3).

1536 Well Cycloolefin Storage Plate with Optimised Geometry for Low Evaporation



**Figure 4:**  
Well profile: 1536 well cycloolefin storage plate with optimised geometry and lid  
Total volume: 16 µl  
Working volume: 1 – 14 µl

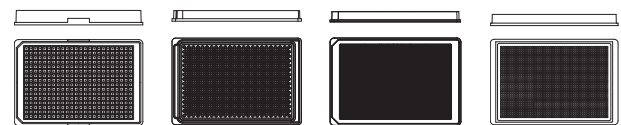
The 1536 well cycloolefin storage plate with optimised geometry was developed in collaboration with Novartis AG, Basel, CH. The microplate features a continuous groove around the edges of the plate, in which a matching cycloolefin plate lid fits (Fig. 4). This prevents evaporation and minimises edge effects.



384 and 1536 Well Storage Plates for Compound Storage

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

Free of detectable  
DNase, RNase,  
human DNA  
non-pyrogenic



Cat.-No.	781 201-906	793 855	782 855	792 870-906
Well format	384 well	384 well	1536 well	1536 well
Well profile	F-bottom	Small Volume™	F-bottom	F-bottom
Material	polypropylene	cycloolefin	cycloolefin	cycloolefin
Bottom	solid	solid	solid	solid
Colour	natural	clear	clear	clear
Sterile	-	-	-	-
Lid	-	-	-	Cat.-No. 792 891
Quantity per bag/case	10/100	15/60	15/60	15/60

▶ New

▶ New