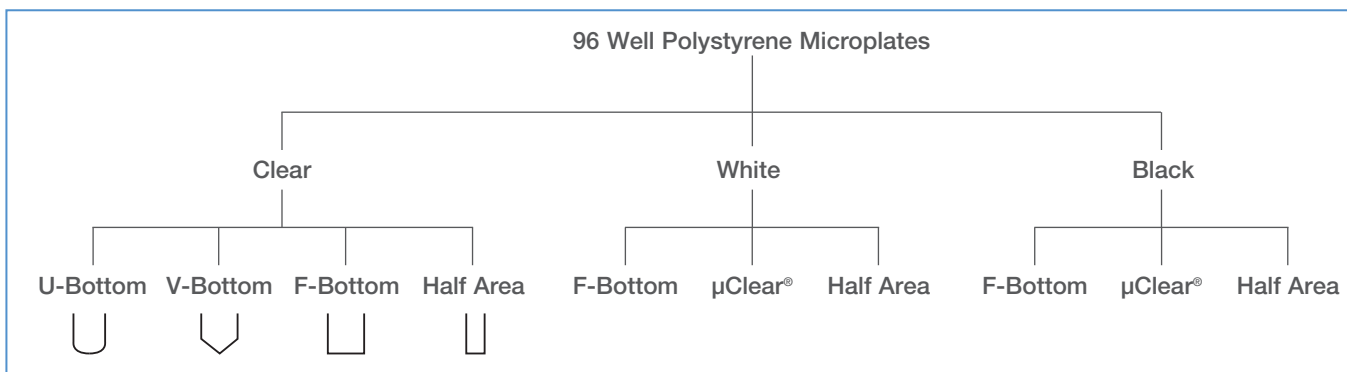


96 Well Microplates

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 30 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.

96 Well Polystyrene Microplates



96 well polystyrene microplates are available in the following versions:

- ☞ Sterile or non sterile
- ☞ Cell culture treated (→ p. 1 | 12 ff.)
- ☞ In medium binding or high binding quality (→ p. 3 | 5)
- ☞ In non-binding quality (→ p. 2 | 31)
- ☞ With or without lid

Well Profile

The well profile is a critical aspect in a 96 well microplate. Different well shapes are available for each application (Fig. 1 – Fig. 4):

U-Bottom

The “U” describes the round bottom shape (Fig. 1). U-bottom microplates are ideally suited for agglutination tests.

- ☞ No sharp corners to facilitate easy and residue-free pipetting
- ☞ Suitable for +/- analyses

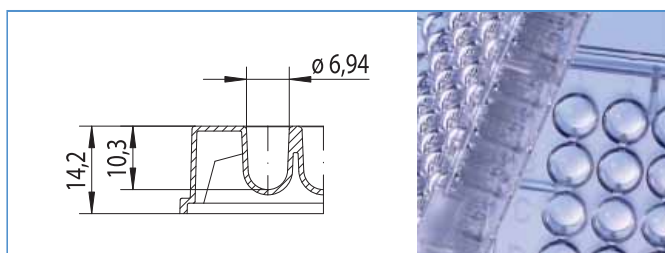


Figure 1:
 Well profile: 96 well U-bottom, polystyrene
 Total volume: 323 µl
 Working volume: 40 – 280 µl

V-Bottom

The “V” stands for the conically tapered well bottom (Fig. 2). These microplates are ideally suited for applications in which the entire sample volume must be pipetted off.

- ☞ For precise pipetting
- ☞ Ideally suited for the storage of samples
- ☞ Suitable for +/- analyses

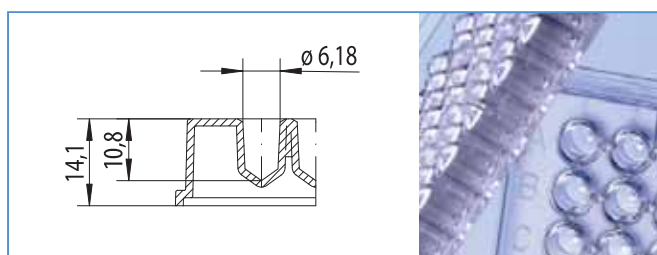


Figure 2:
 Well profile: 96 well V-bottom, polystyrene
 Total volume: 234 µl
 Working volume: 40 – 200 µl

F-Bottom / Standard (ST)

The “F” refers to the flat well bottom (Fig. 3). This well type is ideal for precise optical measurements. The measuring light source is not deflected by the well profile.

- ☞ Excellent optical properties
- ☞ For precise optical measurements
- ☞ For microscopic applications (bottom reading)

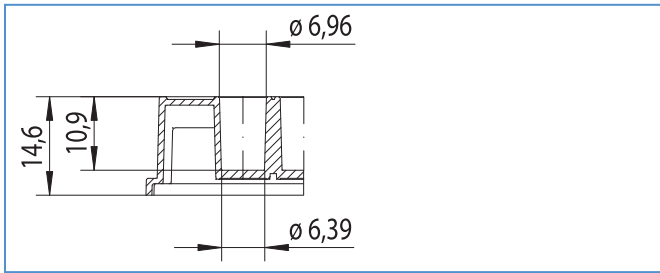


Figure 3:
Well profile: 96 well F-bottom / ST, polystyrene
Total volume: 382 µl
Working volume: 25 – 340 µl
Growth area: 32 mm²

F-Bottom / Chimney Well

The standard flat bottom microplate (Fig. 3) has the same well profile as the chimney well microplate (Fig. 4). The difference from the standard plate is the chimney-like arrangement of the wells. Each well stands on its own (Fig. 5). Therefore the risk of sample carryover and cross contamination is minimised.

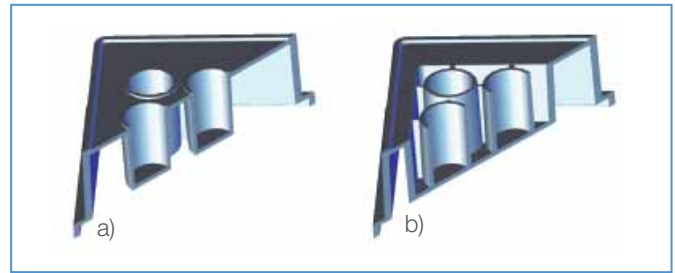


Figure 5:
a) Well profile: 96 well F-bottom / ST, polystyrene
Total volume: 382 µl
Working volume: 25 – 340 µl
Growth area: 32 mm²
b) Well profile: 96 well F-bottom / chimney well, polystyrene
Total volume: 392 µl
Working volume: 25 – 340 µl
Growth area: 34 mm²

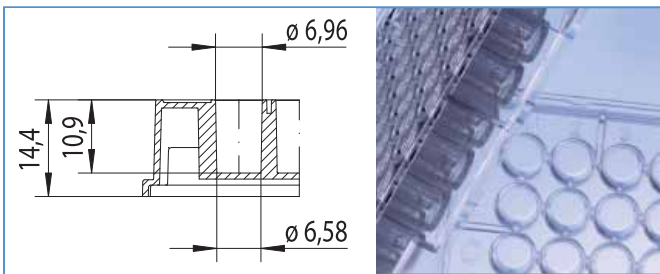
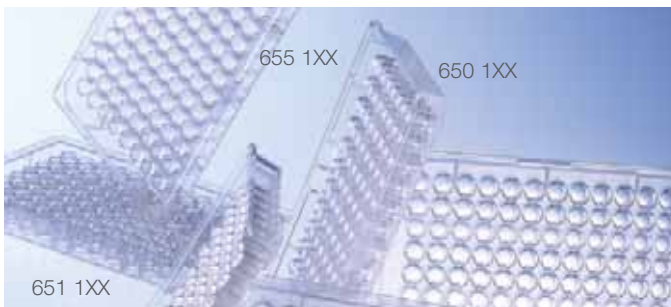


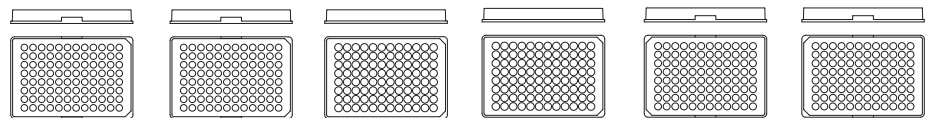
Figure 4:
Well profile: 96 well F-bottom / chimney well, polystyrene
Total volume: 392 µl
Working volume: 25 – 340 µl
Growth area: 34 mm²



96 Well Polystyrene Microplates solid bottom, clear

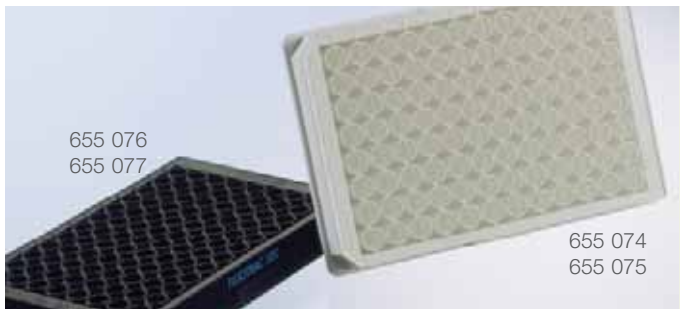
- ▶ ELISA Microplates, p. 3 | 5
- ▶ Cell Culture Microplates p. 1 | 13

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



Cat.-No.	650 101	650 161	651 101	651 161	655 101	655 161
Well profile	U-bottom	U-bottom	V-bottom	V-bottom	F-bottom/ST	F-bottom/ST
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	clear	clear	clear	clear	clear
Binding	-	-	-	-	-	-
Sterile	-	+	-	+	-	+
Lid	-	-	-	-	-	-
Quantity per bag/case	5/100	2/100	5/100	2/100	5/100	2/100

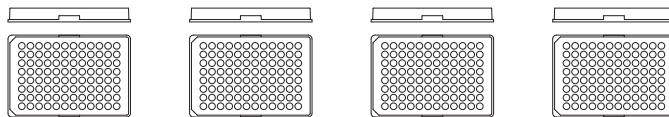
1 Cell/ Tissue Culture
 2 HTS- Microplates
 3 Immunology/ HLA
 4 Microbiology/ Bacteriology
 5 Tubes/Multi- Purpose Beakers
 6 Liquid Handling
 7 Molecular Biology
 8 Protein Crystallisation
 9 Separation
 10 Biochips/ Microfluidics
 11 Cryo- Technics
 12 Lids/Sealers/ CapMats
 13 Reaction Tubes/ Analyser Cups
 14 Accessories



96 Well Polystyrene Microplates solid bottom, white / black

Cell Culture Microplates p. 1 | 14

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



Cat.-No.	655 075	655 074	655 077	655 076
Well profile	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well
Bottom	solid	solid	solid	solid
Colour	white	white	black	black
Binding	LUMITRAC™ 200 med. binding	LUMITRAC™ 600 high binding	FLUOTRAC™ 600 high binding	FLUOTRAC™ 200 med. binding
Sterile	-	+	+	-
Lid	-	-	-	-
Quantity per bag/case	5/40	5/40	5/40	5/40

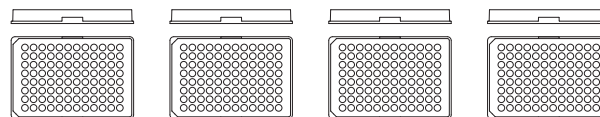


96 Well Polystyrene Microplates µClear®, white / black

Cell Culture Microplates p. 1 | 15

Cat.-No. 655 096 also available in cycloolefin (Cat.-No. 655 809)

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



Cat.-No.	655 095	655 094	655 097	655 096
Well profile	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well	F-bottom/ chimney well
Bottom	µClear®	µClear®	µClear®	µClear®
Colour	white	white	black	black
Binding	med. binding	high binding	high binding	med. binding
Sterile	-	+	+	-
Lid	-	-	-	-
Quantity per bag/case	10/40	10/40	10/40	10/40

96 Well Half Area Polystyrene Microplates

For many applications in the laboratory, a reduction of the sample volume is an important criterion. For pharmaceutical drug screening, the simplest way of reducing the sample volume is to use high-format microplates, such as the 384 well or 1536 well microplates. However, many research groups in the development field or companies in the field of ELISA diagnostics shy away from changing to high-format plates, due to the automation that this entails. The 96 well half area microplates offer an interesting alternative here. They can be pipetted manually without any problem but at the same time allow a reduction of the sample volume by up to 50 %. The 96 well half area microplates are available as black, white, clear and μ Clear® microplates in ELISA, HTS and cell culture quality.

Well profile (Fig. 6)

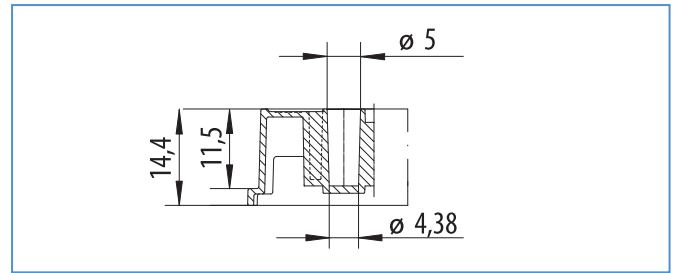


Figure 6:
Well profile: 96 well half area
Total volume: 199 μ l
Working volume: 15 – 175 μ l
Growth area: 15.0 mm²



675 076
675 077

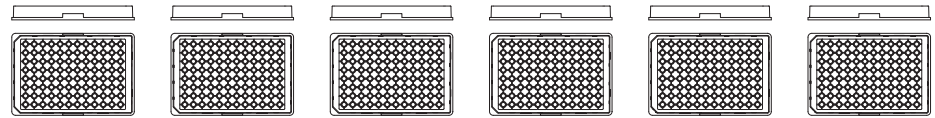
675 094
675 095

96 Well Half Area Microplates

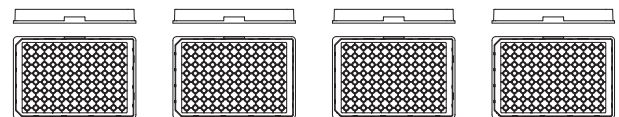
- ▶ Cell Culture Microplates p. 1 | 15
- ▶ Medium binding and high binding quality p. 3 | 5
- ▶ UV-Star® Microplates p. 2 | 37

- Reduction of sample volume by up to 50 %
- Standardised pathlength (1 cm=170 μ l, 0.5 cm=80 μ l)

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



Cat.-No.	675 161	675 101	675 074	675 075	675 077	675 076
Well profile	half area	half area	half area	half area	half area	half area
Bottom	solid	solid	solid	solid	solid	solid
Colour	clear	clear	white	white	black	black
Binding	-	-	high binding	med. binding	high binding	med. binding
Sterile	+	-	+	-	+	-
Lid	-	-	-	-	-	-
Quantity per bag/case	10/40	10/40	10/40	10/40	10/40	10/40



Cat.-No.	675 094	675 095	675 097	675 096
Well profile	half area	half area	half area	half area
Bottom	μ Clear®	μ Clear®	μ Clear®	μ Clear®
Colour	white	white	black	black
Binding	high binding	med. binding	high binding	med. binding
Sterile	+	-	+	-
Lid	-	-	-	-
Quantity per bag/case	10/40	10/40	10/40	10/40