

A complete premium-quality line –  
for every application!



# BRAND*plates*®

## Microplates

H I G H - T E C H   D I S P O S A B L E S

Modern research methods require high-quality disposables. BRAND*plates*®, the new generation of microplates from BRAND, can be used in all important fields of life science.

For this comprehensive line, three new immunological and four new cell culture surfaces have been developed under the most modern production conditions.

The new product line covers a multitude of standard applications (e.g., homogenous assays, screenings) as well as applications in the fields of immunology and cell culture technique.

#### ■ Non-treated surfaces

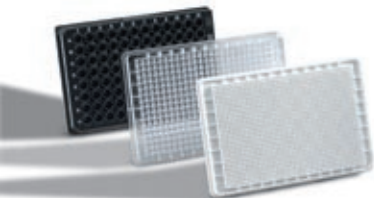
pureGrade™  
pureGrade™ S

#### ■ Immunology

immunoGrade™  
hydroGrade™  
lipoGrade™

#### ■ Cell culture

cellGrade™  
cellGrade™ plus  
cellGrade™ premium  
inertGrade™





**accu-jet<sup>®</sup>, BIO-CERT<sup>®</sup>, BLAUBRAND<sup>®</sup>, BRAND<sup>®</sup>, BRAND*plates*<sup>®</sup>, cellGrade<sup>™</sup>, cellGrade<sup>™</sup> plus, cellGrade<sup>™</sup> premium, Dispensette<sup>®</sup>, EASYCAL<sup>™</sup>, HandyStep<sup>®</sup>, hydroGrade<sup>™</sup>, immunoGrade<sup>™</sup>, inertGrade<sup>™</sup>, lipoGrade<sup>™</sup>, nano-cap<sup>™</sup>, PLASTIBRAND<sup>®</sup>, pureGrade<sup>™</sup>, pureGrade<sup>™</sup> S, QuikSip<sup>™</sup>, SafetyPrime<sup>™</sup>, seripettor<sup>®</sup>, Titrette<sup>®</sup>, Transferpette<sup>®</sup>, as well as the word and design marks shown here are brands of BRAND GMBH + CO KG, Germany.**

Insofar as other owners' brands or protected terms, symbols or illustrations are used, this occurs merely for reference purposes and without any claim of right. Reproduced brands are the property of the respective owner.

The Polymerase Chain Reaction (PCR) is, where applicable, covered by patents. No license under these patents to use the PCR process is conveyed expressly or by implication to the purchaser by the purchase of products from this catalog.

**General Information**

Quality Features of BRANDplates® Microplates

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**BRANDplates® Microplates Non-treated**

pureGrade™ · pureGrade™ S

11

**BRANDplates® Microplates for Immunoassays**

immunoGrade™ · hydroGrade™ · lipoGrade™

15

**BRANDplates® Microplates for Cell Culture**

cellGrade™ · cellGrade™ plus · cellGrade™ premium · inertGrade™

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**Technical Information**

Lids and Films · Data Sheets · Customer Support

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# BRANDplates®

## Microplates

### Highest quality for reproducible results from test to test!

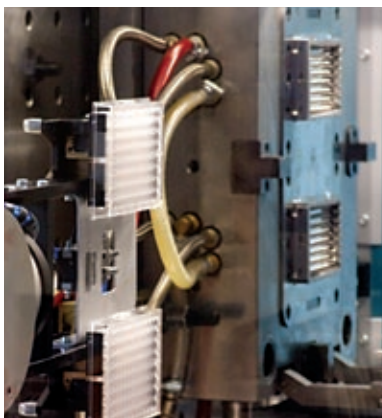
Modern research and development in the field of life science is not possible without high-quality plastic disposables. For more than 20 years BRAND has provided high performance products for many applications in the life science area.

In creating our disposable products for life sciences, we start with discussion of the needs of customers worldwide. Then we carefully construct the dies for injection molding, and select the raw materials used. We strictly control the entire manufacturing process and rely on external quality assurance laboratories so that you can always count on the performance of BRANDplates® microplates.



### Raw materials

The selection of the correct raw materials is a crucial step when manufacturing premium-quality products. Not only are the physical and chemical properties critical in the field of microplate production, the optical characteristics of the end product are also crucial.



### Injection molding dies

The quality of the product is a direct reflection of the quality of the injection molding dies used. High performance machining allows optimal process management and leads to consistent quality from item to item.

The results are products with barely visible injection markings, without flash and perfect optical characteristics that meet the required tolerances on every item!



### Clean room production

All microplates are produced in clean rooms from class 5 to 8 according to ISO 14644-1. To avoid microbiological and molecular biological contamination throughout the whole production line as much as possible the injection molding process, automatic embossing, surface treatment and packaging are organized using isolated manufacturing rooms and robotic support in a directly interlinked process.



### Laboratory

After the products have left the closed production line, they are subjected to a variety of optical and functional examinations, before they are tested for molecular biological contamination. BRANDplates® microplates are regularly checked by independent, accredited test laboratories. With sensitive detection methods, depending on the intended use, the following criteria are tested:

- Endotoxins < 0.01 EU/ml
- DNA, DNase, RNase
- Cytotoxic substances according to DIN EN ISO 10993

All sterilization is performed via  $\beta$ -radiation in a validated process according to ISO 11137 and the AAMI-guidelines. A SAL of  $10^{-6}$  is guaranteed. The sterility meets the requirements of the Ph.Eur. and the USP 29.

### Dimensions and tolerances

Modern laboratories demand the highest quality from their disposables. From 96-well microplates for standard analysis, immunology and cell culture, through 384-well microplates, up to high performance 1536-well format products, BRAND manufactures a broad product range under the most modern clean room conditions.

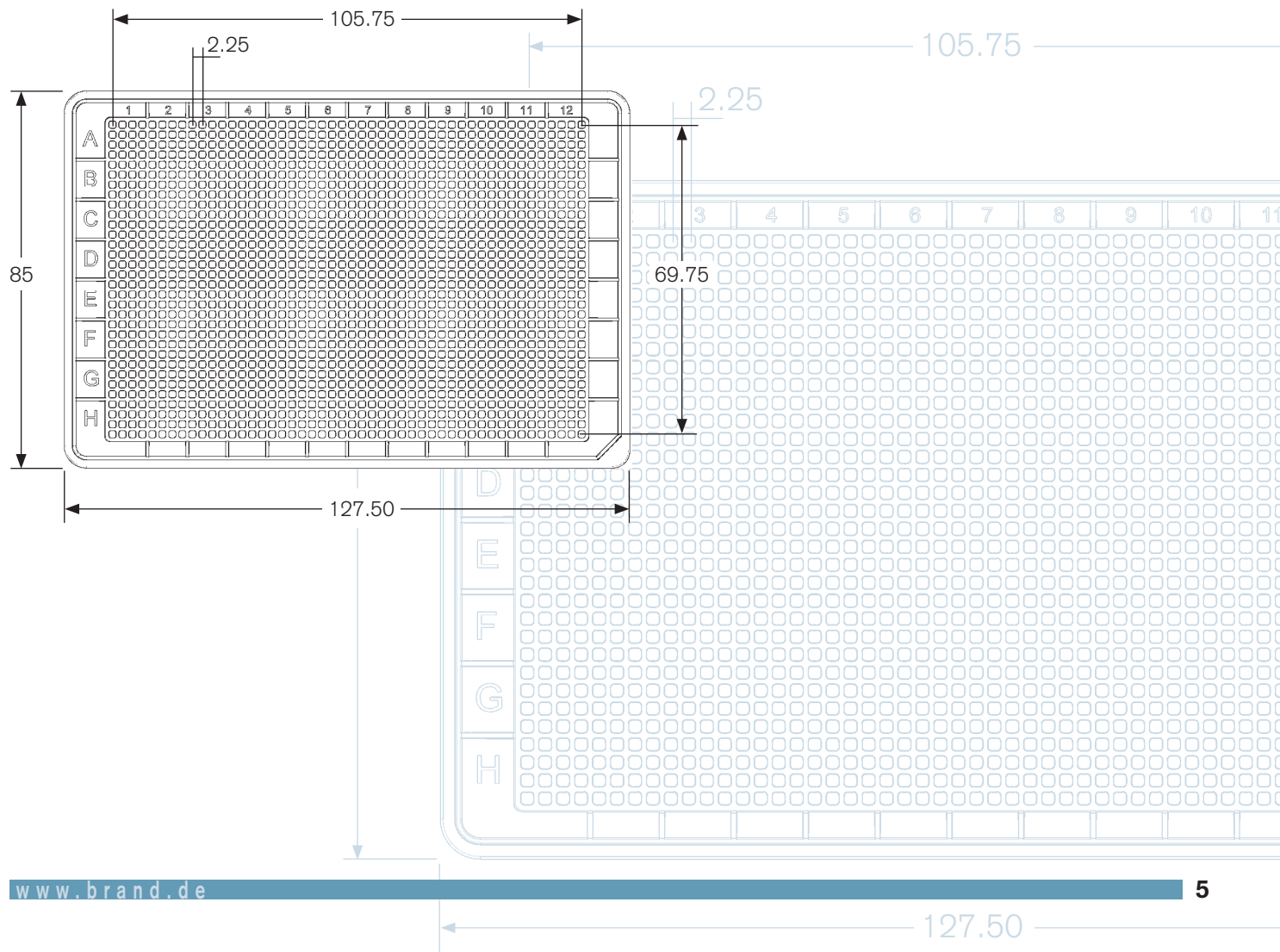
In addition to the purity of the finished products, dimensions and tolerances play a central role (see below, and pages 30 - 33).

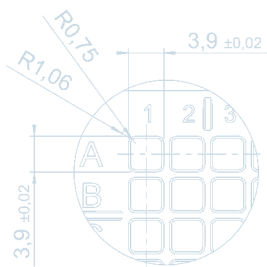
### ANSI-/SBS-Standard

BRANDplates® microplates are manufactured according to the ANSI-/SBS-Standard 1 through 4 - 2004, to ensure compatibility for all processes, especially when automation is involved. The standards set the most important dimensions with tolerances for 96-well, 384-well and 1536-well microplates. Further information about the compatibility with a variety of instruments can be found at [www.brand.de](http://www.brand.de).

ANSI: American National Standards Institute

SBS: Society for Biomolecular Sciences



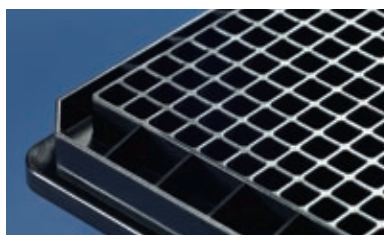


# Characteristics of BRANDplates® Microplates

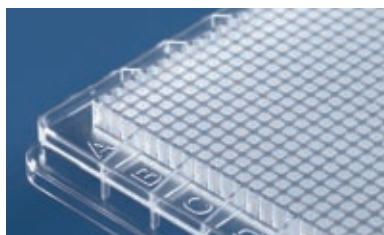
BRANDplates® microplates are available with a variety of different characteristics, such as plate type, material of construction and surface treatment. Different combinations of these characteristics create the broad product range of BRANDplates® microplates.



96-well



384-well



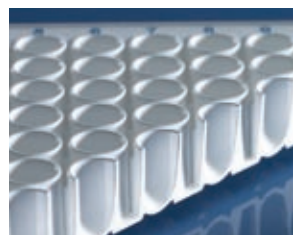
1536-well

## 1. Cavities

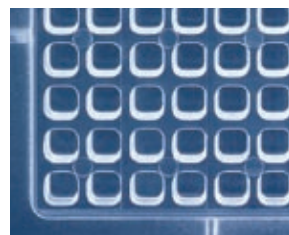
BRANDplates® microplates are offered in 96-, 384- and 1536-well formats. Well geometry is an important characteristic of these products.

BRANDplates® microplates with 96-well standard format are manufactured with the so-called chimney well. Each individual well is separated from each other with a gap to avoid cross contamination. In combination with the condensation rings of the lid, evaporation is reduced substantially.

In the 384- and 1536-well formats, rounded wells allow optimal uniform meniscus formation.



Chimney well



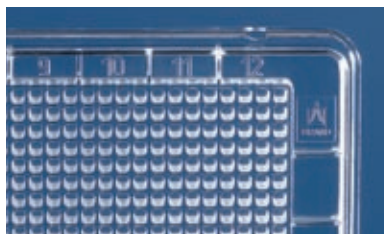
Rounded wells

## 2. Materials

BRANDplates® microplates are manufactured from a number of different materials and can be used in a variety of different fields of application, depending on composition.

### PS (Polystyrene)

Most types of BRANDplates® microplates are manufactured of polystyrene (PS). Uncolored PS provides a high transparency with optimal optical characteristics, making it especially suited for colorimetric assays and other optical measurements. Untreated PS is hydrophobic in nature. This surface characteristic can be modified specifically via physical-chemical treatments, so that a lot of new applications are possible (e.g., immunological analysis, cell culture, etc.), depending on the chosen process. BRAND's modifications are stable at room temperature, and have a long shelf life.



### UV-Polymer

BRAND's proprietary UV-polymer has superior optical characteristics and is transparent from 220 nm and above. For this reason disposables made from this polymer are suitable for the determination of nucleic acid and protein concentrations at 260 and 280 nm, respectively. Furthermore, the UV-polymer has very good resistance against a number of chemicals like e.g., DMSO, acetone or dioxane, and is also an alternative to polypropylene plates for storage applications.

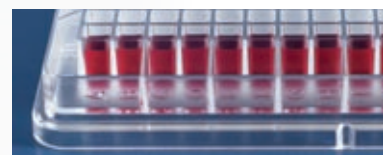
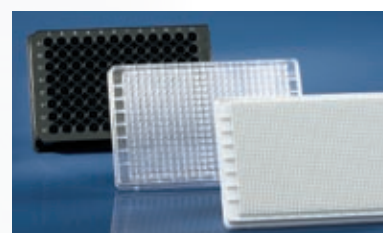


### 3. Plate Types

Construction and shape of the microplates define the different plate types. BRAND microplates can be classified in three main types.

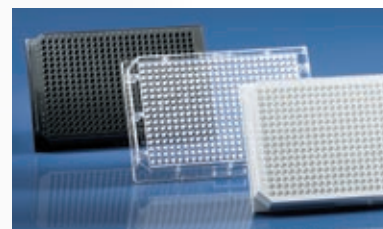
#### Standard microplates

Standard plates are available in all formats (96-, 384- and 1536-well). They are manufactured out of a single piece of polymer, either PS or UV-polymer, in transparent, or colored white or black, and are disposable.



#### Low volume microplates

Low volume microplates are available in the 384-well format in transparent, or colored white or black. These plates have a constant format with a reduced working volume of only 30  $\mu$ l per well. They are especially suited for the economical use of valuable reagents.

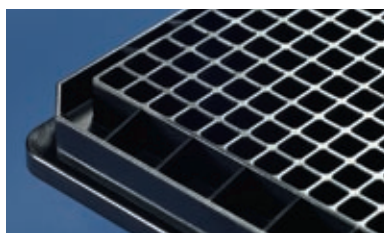
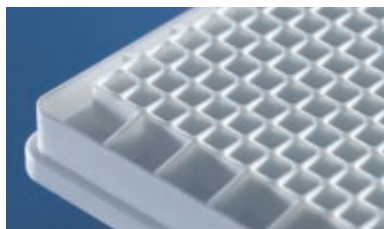
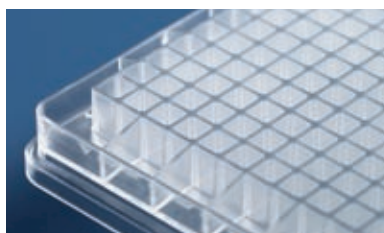


#### Microplates with transparent bottom

These plates are available in 96- and 384-well formats. They are manufactured out of white or black PS, with a transparent bottom made of PS. In general these plates are suited for applications like luminescence- or fluorescence measurements, when a transparent bottom is required. Because of the transparent bottom, the well contents can be seen readily and the plates can be used to perform transmitted light measurements. Furthermore the plates can be examined directly under the microscope, which can be quite important especially for cell-based assays. The pigmented upper structure reduces the crosstalk between the wells during detection.



## 4. Colors



The application to be performed in the plate generally determines the color of the plates used. A basic rule is: transparent for colorimetry; white for luminescence; and black for fluorescence.

### Transparent

Transparent plates are especially suited for precise optical measurements because of their excellent optical characteristics. For this reason they are used for colorimetric assays, but also find use in the fields of cell culture and storage. Transparent plates are available as standard or low volume.

### White

White pigmented plates are optimized for luminescence measurements. Because of the white coloration, the plates show a maximum reflection of the luminescence signals and minimize well-to-well crosstalk. White plates are available in standard, low volume, or with transparent bottom.

### Black

Black pigmented plates are optimized for fluorescence measurements. The plates show a minimal auto-fluorescence because of the black pigmentation, especially in the lower wavelengths, as well as minimized crosstalk between the wells. Black plates are available as standard, low volume or with transparent bottom.

## 5. Bottom Shapes of 96-well Plates

96-well BRANDplates® microplates are offered with four distinct bottom shapes. (384-well and 1536-well microplates are only available with F-bottom)

### U-bottom

Round-shaped well bottom. As wells with this bottom have no edges they are well suited for stirring and washing of samples. This bottom shape is used for agglutination and other assays requiring these tasks.

### V-bottom

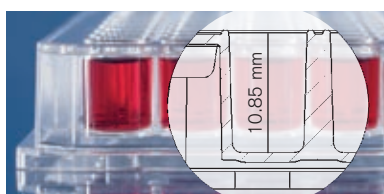
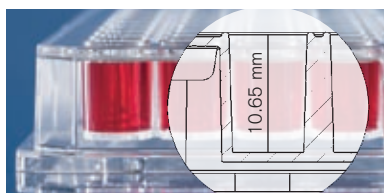
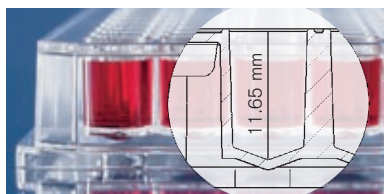
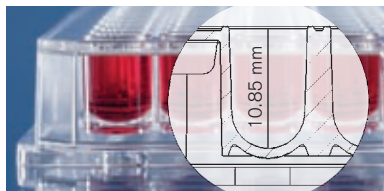
Conically-shaped well bottom. Sample recovery is maximized with this bottom shape. For this reason plates with V-bottom are especially suited for precipitation assays and storage.

### F-bottom

Flat well bottom. The F-bottom is designed for precise optical measurements and is well suited for colorimetric determinations as well as microscopy applications. Additionally, the F-bottom is used for specific applications such as cell culture.

### C-bottom

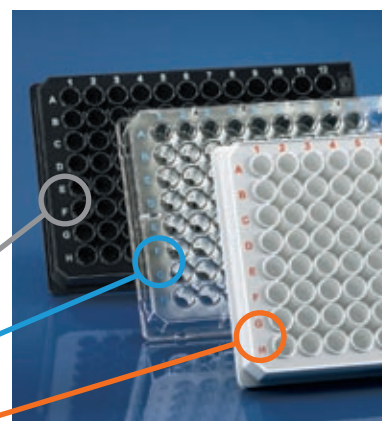
Flat bottom with curved edges. The C-bottom combines the advantages of U- and F-bottom. Because of the curved edges better sample mixing is obtained. The flat bottom in the middle area of the wells at the same time allows the realization of precise optical measurements. The C-bottom is specially suited for immunological assays, as sample stirring has a major impact on precise assay results as well as optical measurement to determine those results.



## 6. Color Codes 96-well Plates

To enable an easy identification of the surface type and to facilitate the legibility of the alphanumeric coding, most BRAND<sup>plates</sup>® microplates in the 96-well format have a color-coded embossing.

<b>Grey coded</b>	Non-treated standard microplates (no embossing on transparent plates)
<b>Blue coded</b>	Standard microplates for immunological applications
<b>Orange coded</b>	Standard microplates for cell culture applications



## 7. Surfaces

BRAND<sup>plates</sup>® microplates are offered with nine different surfaces. In addition to the two non-treated variants, there are three immunological types, and four different surfaces for cell culture applications available.

The surface modifications of the microplates are generated via a physical-chemical process, each with distinctive parameters. This kind of surface modification creates durable surfaces. All BRAND<sup>plates</sup>® microplates can be stored at room temperature.

### ■ Non-treated surfaces

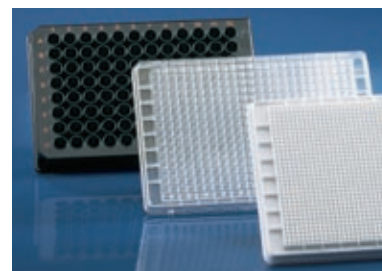
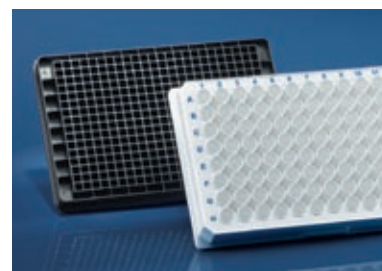
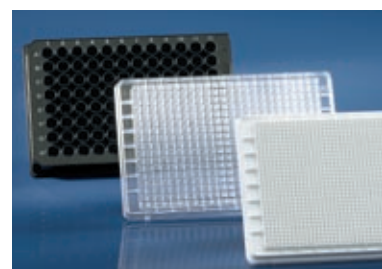
<b>pureGrade™</b>	non-treated, non-sterile
<b>pureGrade™ S</b>	non-treated, sterile

### ■ Immunological surfaces

<b>immunoGrade™</b>	ideal for immobilization of IgG, non-sterile
<b>hydroGrade™</b>	hydrophilic, ideal for immobilization of hydrophilic molecules, non-sterile
<b>lipoGrade™</b>	hydrophobic, ideal for immobilization of hydrophobic molecules, non-sterile

### ■ Cell culture surfaces

<b>cellGrade™</b>	standard surface for the cultivation of adherent cell cultures, sterile
<b>cellGrade™ plus</b>	surface for the cultivation of fastidious adherent cells making serum-reduced cultivation possible, sterile
<b>cellGrade™ premium</b>	surface treatment with similar properties to poly-D-lysine, serum-reduced or serum-free cultivation is possible, sterile
<b>inertGrade™</b>	surface that inhibits adhesion of cells, e.g., when working with cell suspensions, sterile



## 8. Barcode



While BRANDplates® microplates feature two large areas for identification marking for small volume manual use, robotic use of plates often requires the use of barcodes for identification. Upon request, BRAND can provide high-quality barcode printing directly to the plate. This two-color (black print on white background) process is durable and highly legible. Visit [www.brand.de](http://www.brand.de) for a barcode specification form (see page 36).

## 9. Lids and Films for Microplates



To protect samples from evaporation and contamination, different lids made of PS are available for all BRANDplates® microplates. The lids are perfectly matched to the different microplates and are available with and without condensation rings. The chimney well design of the 96-well standard plates in combination with the condensation rings substantially reduce the risk of contamination and evaporation.

A total of four different lid types are available depending on the plate used, and can be purchased separately (see page 28).

Self adhesive sealing films complete the product range for BRANDplates® microplate sealing (see page 29).



Use BRAND's online plate-selection guide at [www.brand.de](http://www.brand.de) to select the right plate for your needs (see page 35). To confirm the suitability of the optimal BRANDplates® microplate for your specific application, various sample packs are available (see page 36). More information is available at [www.brand.de](http://www.brand.de).

The screenshot shows the BRANDplates® Selection Guide website. The top navigation bar includes links for English, Deutsch, Español, and a search bar. Below the navigation bar, there are tabs for ABOUT US, PRODUCTS, ONLINE-CATALOG, DISTRIBUTION, TECH-INFO, DOWNLOADS / SUPPORT, NEWS, and CAREER. The main content area is titled "Downloads / Support" and "BRANDplates® - Selection Guide". It features a sidebar with links to Sales Literature, Technical Literature, Certificates Class A/AS, and the Selection Guide. The main area contains a form with various selection criteria:

- Cavities:** ☒ all, ☐ 96-well, ☐ 384-well, ☐ 1536-well
- Material:** ☒ all, ☐ PS, ☐ UV polymer
- Type:** ☒ all, ☐ Standard<sup>1)</sup>, ☐ Transp. Bottom, ☐ Low Volume
- Color:** ☒ all, ☐ transparent, ☐ white, ☐ black, ☐ UV transparent
- Surface:** ☒ all, ☐ Not treated plates: ☐ pureGrade™, ☐ pureGrade™ S, ☐ Immune analytic plates: ☐ immunoGrade™, ☐ hydroGrade™, ☐ lipoGrade™, ☐ Cell culture plates: ☐ inertGrade™, ☐ cellGrade™, ☐ cellGrade™ plus, ☐ cellGrade™ premium
- Bottom type:** ☒ all, ☐ U, ☐ V, ☐ F, ☐ C
- Sterility:** ☒ all, ☐ sterile, ☐ not sterile

At the bottom, it shows "132 Plates found" and buttons for "Show plates" and "Reset selection". There is also a link for "Alternative applicational search".

# **BRAND<sup>®</sup>plates<sup>®</sup>** **Microplates**

## **Non-treated**



### **pureGrade<sup>™</sup> · pureGrade<sup>™</sup> S**

Microplates are available in different materials and formats and often serve as a measuring cell, reaction tube, or storage container.

Non-treated microplates made of PS are used in the most diversified application fields, such as homogenous standard assays and extensive screening assays. The hydrophobic characteristics of non-treated PS are often helpful in performing these applications.





# Non-treated BRANDplates® microplates

pureGrade™ and pureGrade™ S – the 'S' stands for 'sterile'.

## pureGrade™

### Non-treated surface, non-sterile

- Non-treated, non-sterile surface.
- The standard plate for most applications.
- Particularly applicable for homogenous assays, screening, and for storage.

## pureGrade™ S

### Non-treated surface, sterile

- Non-treated surface, sterile.
- Sterilized via  $\beta$ -radiation.
- Especially suited for bacteriological assays.

### Colors, wells and shapes

- 96-, 384- and 1536-well formats
- Standard, low volume or transparent bottom
- Transparent, white or black
- Different bottom shapes: U-, V-, F-, C-bottom for 96-well format
- Sterile or non-sterile
- Clearly distinguishable via color code: grey embossed alphanumeric coding for 96-well standard plates in white or black
- Free from endotoxins, DNase, DNA, RNase, non-cytotoxic

# pureGrade™

PS or UV-polymer. Non-treated, non-sterile.  
For homogenous assays, screenings, storage, etc.

## 96-well Microplates

Standard: pack of 100 plates (20 stacks of 5 plates).  
Transparent bottom: pack of 100 plates (4 bags of 25 plates).

Color	Bottom	Well volume	Cat. No.
<b>1 96-well standard microplates</b>			
transparent	U-bottom	330 µl	7816 00
transparent	V-bottom	360 µl	7816 01
transparent	F-bottom	350 µl	7816 02
transparent	C-bottom	350 µl	7816 03
white	U-bottom	330 µl	7816 04
white	F-bottom	350 µl	7816 05
black	U-bottom	330 µl	7816 07
black	F-bottom	350 µl	7816 08
<b>2 96-well microplates with transparent bottom</b>			
white	F-bottom	330 µl	7816 10
black	F-bottom	330 µl	7816 11

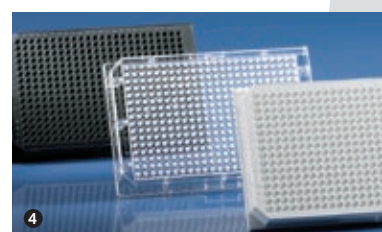
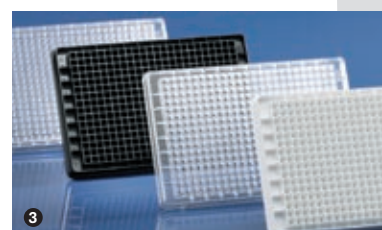


## 384-well Microplates

Standard: pack of 50 plates (5 bags of 10 plates).  
Low volume and transparent bottom: pack of 50 plates (2 bags of 25 plates).

Color	Bottom	Well volume	Cat. No.
<b>3 384-well standard microplates</b>			
transparent, UV-polymer*	F-bottom	100 µl	7816 28
transparent	F-bottom	100 µl	7816 20
white	F-bottom	100 µl	7816 21
black	F-bottom	100 µl	7816 22
<b>4 384-well low volume microplates</b>			
transparent	F-bottom	30 µl	7816 23
white	F-bottom	30 µl	7816 24
black	F-bottom	30 µl	7816 25
<b>5 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7816 26
black	F-bottom	120 µl	7816 27

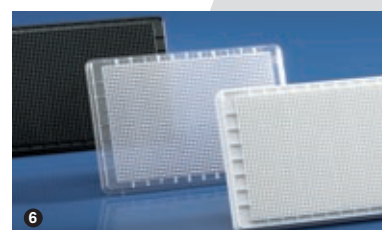
\* slightly hydrophilized



## 1536-well Microplates

Pack of 50 plates (5 bags of 10 plates).

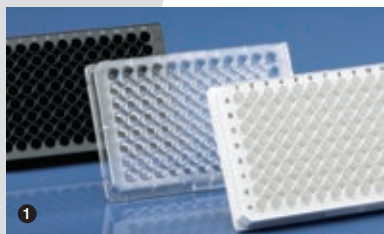
Color	Bottom	Well volume	Cat. No.
<b>6 1536-well standard microplates</b>			
transparent	F-bottom	10 µl	7816 40
white	F-bottom	10 µl	7816 41
black	F-bottom	10 µl	7816 42



non-treated

# pureGrade™ S

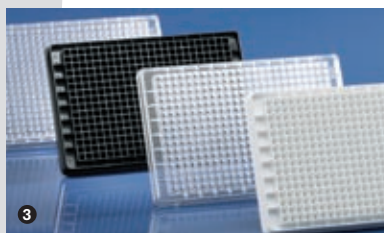
PS or UV-polymer. Non-treated, sterile.  
For bacteriological assays, screenings, storage, etc.



## 96-well Microplates

Pack of 50 plates (single packed, with lid).

Color	Bottom	Well volume	Cat. No.
<b>① 96-well standard microplates</b>			
transparent	U-bottom	330 µl	7816 60
transparent	V-bottom	360 µl	7816 61
transparent	F-bottom	350 µl	7816 62
transparent	C-bottom	350 µl	7816 63
white	F-bottom	350 µl	7816 65
black	F-bottom	350 µl	7816 68
<b>② 96-well microplates with transparent bottom</b>			
white	F-bottom	330 µl	7816 70
black	F-bottom	330 µl	7816 71

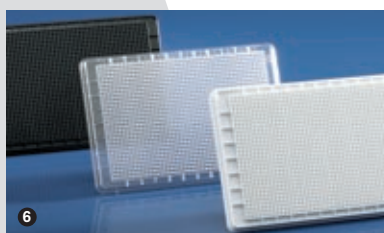
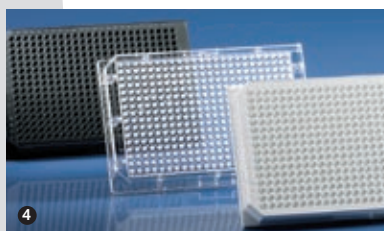


## 384-well Microplates

Pack of 50 plates (single packed, with lid).

Color	Bottom	Well volume	Cat. No.
<b>③ 384-well standard microplates</b>			
transparent, UV-polymer*	F-bottom	100 µl	7816 88
transparent	F-bottom	100 µl	7816 80
white	F-bottom	100 µl	7816 81
black	F-bottom	100 µl	7816 82
<b>④ 384-well low volume microplates</b>			
transparent	F-bottom	30 µl	7816 83
white	F-bottom	30 µl	7816 84
black	F-bottom	30 µl	7816 85
<b>⑤ 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7816 86
black	F-bottom	120 µl	7816 87

\* slightly hydrophilized



## 1536-well Microplates

Pack of 50 plates (single packed, with lid).

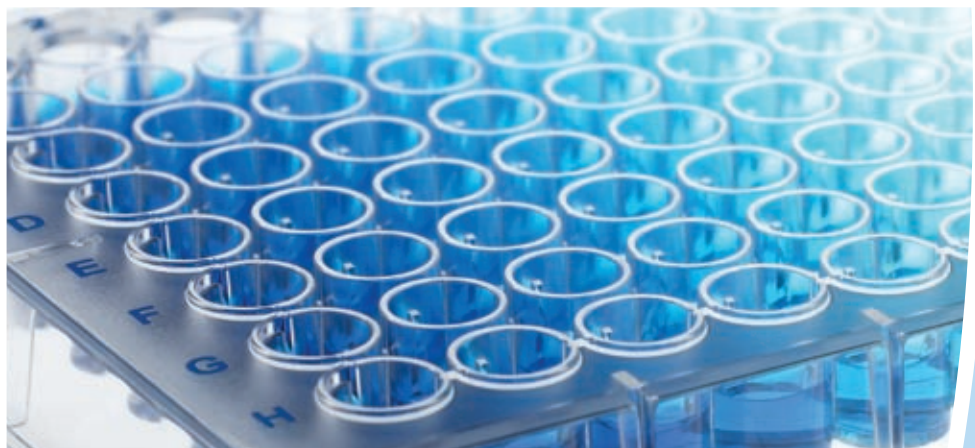
Color	Bottom	Well volume	Cat. No.
<b>⑥ 1536-well standard microplates</b>			
transparent	F-bottom	10 µl	7817 00
white	F-bottom	10 µl	7817 01
black	F-bottom	10 µl	7817 02

UV!

non-treated

**BRANDplates®**  
Microplates for

# Immunoassays



**immunoGrade™ • hydroGrade™**  
**lipoGrade™**

Diagnosis of disease, pregnancy or verification of doping substances – many analyses in the modern laboratory are performed with immunological assays in microplates. They are characterized by their high specificity and provide the opportunity to detect the lowest concentrations of defined substances in complex liquids, such as blood serum.



# BRANDplates® Microplates for Immunoassays

immunoGrade™, hydroGrade™ and lipoGrade™ – three surfaces with different affinities to different types of molecules. The BRANDplates® microplates are suitable for a broad section of applications like ELISA, RIA, FIA, etc.

## immunoGrade™

### Optimized for the immobilization of IgG

- Optimized for the immobilization of IgG, offering highest binding capacity for molecules with mixed hydrophilic and hydrophobic regions.
- The surface of choice for the majority of standard ELISAs.
- Suitable for solid phase immunoassays.
- Comparable to 'high-binding' plates from other manufacturers.

## hydroGrade™

### For the immobilization of hydrophilic molecules

- Strongly hydrophilic, with high affinity to hydrophilic molecules, such as glycoproteins and peptides, antibodies with predominantly hydrophilic regions, and nucleic acids.
- An alternative to the immunoGrade™ surface when performing solid phase assays.
- Alternative for homogeneous assays with hydrophobic molecules, that remain in solution.

## lipoGrade™

### For the immobilization of hydrophobic molecules

- Strongly hydrophobic (lipophilic), for immobilization of biomolecules with predominantly hydrophobic regions.
- An alternative to the immunoGrade™ surface for the immobilization of molecules, such as lipoproteins or peptides.
- Specially suited for liquid phase assays when the reaction component should stay in solution. The majority of hydrophilic biomolecules are not immobilized on this surface.

Colors, wells and shapes

- 96- and 384-well formats
- Standard, low volume or transparent bottom
- Transparent, white or black
- Different bottom shapes: U-, V-, F-, C-bottom for 96-well format
- Modification via a physical-chemical process, good shelf life at room temperature
- Clearly distinguishable through the color code: blue embossed alphanumeric coding for 96-well standard plates
- Free from endotoxins, DNase, DNA, RNase, non-cytotoxic

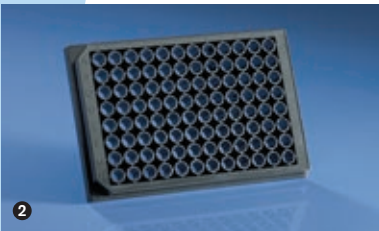
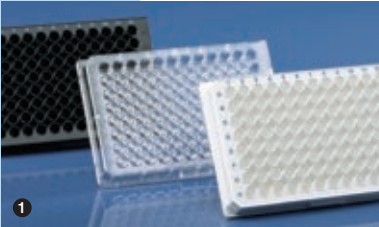


At a glance: Microplates for immunoassays

	immunoGrade™	hydroGrade™	lipoGrade™
Surface	Hydrophilic and hydrophobic regions	Strongly hydrophilic	Strongly lipophilic/hydrophobic
Feature	Optimized for immobilization of IgG and molecules with hydrophilic and hydrophobic regions	Binds biomolecules with predominantly hydrophilic regions	Binds biomolecules with predominantly hydrophobic regions
Application	Standard ELISA plate	Solid phase with hydrophilic molecules; liquid phase with hydrophobic molecules	Solid phase with hydrophobic molecules; liquid phase with hydrophilic molecules

immunoGrade™

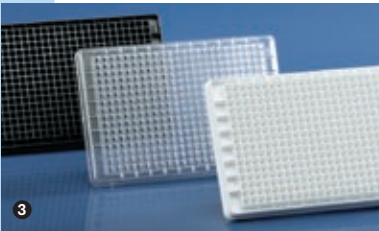
PS, non-sterile.  
Optimized for the immobilization of IgG, standard  
ELISA assay.



96-well Microplates

Pack of 100 plates (20 stacks of 5 plates).

Color	Bottom	Well volume	Cat. No.
1 96-well standard microplates			
transparent	U-bottom	330 µl	7817 20
transparent	V-bottom	360 µl	7817 21
transparent	F-bottom	350 µl	7817 22
transparent	C-bottom	350 µl	7817 23
white	U-bottom	330 µl	7817 24
white	C-bottom	350 µl	7817 26
black	U-bottom	330 µl	7817 27
black	C-bottom	350 µl	7817 29
2 96-well microplates with transparent bottom			
black	F-bottom	330 µl	7817 31



384-well Microplates

Pack of 50 plates (10 stacks of 5 plates).

Color	Bottom	Well volume	Cat. No.
3 384-well standard microplates			
transparent	F-bottom	100 µl	7817 40
white	F-bottom	100 µl	7817 41
black	F-bottom	100 µl	7817 42

immunoassays

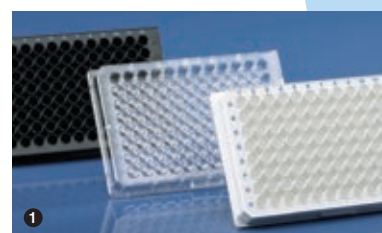
# hydroGrade™

PS, non-sterile.  
Hydrophilic. For solid phase with hydrophilic molecules  
and liquid phase with hydrophobic molecules, resp.

## 96-well Microplates

Pack of 100 plates (20 stacks of 5 plates).

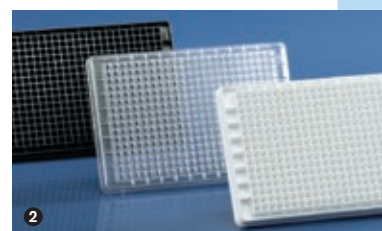
Color	Bottom	Well volume	Cat. No.
<b>① 96-well standard microplates</b>			
transparent	U-bottom	330 µl	7817 80
transparent	F-bottom	350 µl	7817 82
transparent	C-bottom	350 µl	7817 83
white	U-bottom	330 µl	7817 84
white	C-bottom	350 µl	7817 86
black	U-bottom	330 µl	7817 87
black	C-bottom	350 µl	7817 89



## 384-well Microplates

Pack of 50 plates (10 stacks of 5 plates).

Color	Bottom	Well volume	Cat. No.
<b>② 384-well standard microplates</b>			
transparent	F-bottom	100 µl	7818 00
white	F-bottom	100 µl	7818 01
black	F-bottom	100 µl	7818 02



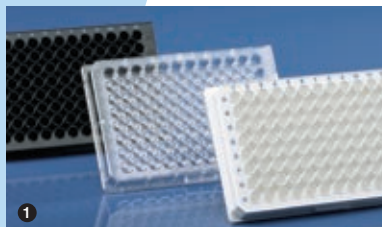
# lipoGrade™

PS, non-sterile.

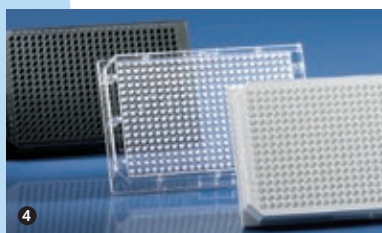
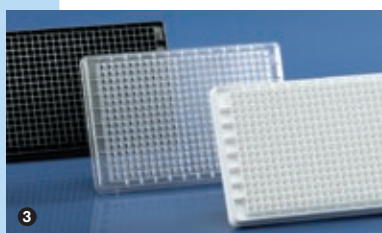
Lipophilic/hydrophobic. For solid phase with hydrophobic molecules and liquid phase with hydrophilic molecules, respectively.

## 96-well Microplates

Pack of 100 plates (20 stacks of 5 plates).



Color	Bottom	Well volume	Cat. No.
<b>1 96-well standard microplates</b>			
transparent	U-bottom	330 µl	7818 40
transparent	V-bottom	360 µl	7818 41
transparent	F-bottom	350 µl	7818 42
transparent	C-bottom	350 µl	7818 43
white	U-bottom	330 µl	7818 44
white	C-bottom	350 µl	7818 46
black	U-bottom	330 µl	7818 47
black	C-bottom	350 µl	7818 49
<b>2 96-well microplates with transparent bottom</b>			
white	F-bottom	330 µl	7818 50
black	F-bottom	330 µl	7818 51



## 384-well Microplates

Pack of 50 plates (10 stacks of 5 plates).

Color	Bottom	Well volume	Cat. No.
<b>3 384-well standard microplates</b>			
transparent	F-bottom	100 µl	7818 60
white	F-bottom	100 µl	7818 61
black	F-bottom	100 µl	7818 62
<b>4 384-well low volume microplates</b>			
transparent	F-bottom	30 µl	7818 63
white	F-bottom	30 µl	7818 64
black	F-bottom	30 µl	7818 65
<b>5 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7818 66
black	F-bottom	120 µl	7818 67

# BRANDplates® Microplates for Cell Culture



**cellGrade™ · cellGrade™ plus  
cellGrade™ premium · inertGrade™**

Cell culture is increasing in popularity in the research and development area. Outside of basic research, cells are cultivated today for a number of reasons, including the production of proteins and, in particular, as assay systems.

As cell cultures can sometimes be quite demanding regarding their environment, the disposables used for cultivation have to be of highest quality. BRAND has drawn upon its extensive experience in the production of high-quality plastic disposables to expand the product range of BRANDplates® microplates into the field of cell culture.





# BRANDplates® Microplates for Cell Culture

Adherent cells prefer polar surfaces that possess hydrophilic functional groups. In contrast suspension cells prefer extremely hydrophobic or hydrophilic surfaces, that don't allow any immobilization. Four different plate surfaces – cellGrade™, cellGrade™ plus, cellGrade™ premium, inertGrade™ – allow the optimum combination between microplate and specific cell line.

## cellGrade™

### For the cultivation of adherent cell lines

- Standard plate for the cultivation of adherent cell lines.
- PS-surface with different chemical groups, such as carboxyl and hydroxyl groups, that are freely accessible.
- Surface is hydrophilic compared with non-treated PS.
- Serum components are easily bound onto the freely accessible chemical groups, allowing an indirect adhesion of cells.

## cellGrade™ plus

### For reduced-serum media cultivation of cells

- For cultivation of fastidious cell lines.
- In addition to carboxyl and hydroxyl chemical groups, free amino groups are present on the surface.
- The surface has a protein-like composition, so cells can directly attach and spread out.
- Cells adhere faster, better rate of yield.
- Sensitive cell lines can be cultivated.
- Suited for serum reduced cultivation of cells.

## cellGrade™ premium

### Poly-D-Lysine-equivalent surface

- Poly-D-Lysine-equivalent surface, with analogous results regarding growth performance and cell morphology.
- Optimal adhesion of cells to the surface reduces cell damage when washing frequently.
- Cultivation of cell lines with the highest demands on their environment.
- Surface suited for serum-free and serum-reduced cultivation of cells.
- Good shelf life at room temperature.
- Alternative option to biologically coated surfaces.

**inertGrade™\*****For cultivation of suspension cell lines**

- Especially suited for cell cultures, when adhesion is not desired.
- Optimized surface characteristics reduce cell adhesion and protein adsorption, minimizing enzyme and cellular activation.
- Inhibits early differentiation of stem cells.

\* available in 2009

**Colors, wells and shapes**

- 96-, 384- and 1536-well formats
- Sterile according to Ph. Eur. and USP 29, SAL 10<sup>-6</sup>
- Standard, low volume or transparent bottom
- Transparent, white or black
- Different bottom shapes: U-, V-, F-, C-bottom with 96-well format
- Clearly distinguishable through the color code: orange, embossed alphanumeric coding for 96-well standard plates
- Free from endotoxins, DNase, DNA, RNase, non-cytotoxic

**Growing area standard plates  
F-bottom (approx. cm<sup>2</sup>)**

96-well	Standard microplate	0.32 *
	Microplate with transparent bottom	0.31
384-well	Standard microplate	0.12
	Microplate with transparent bottom	0.13
	Low volume microplate	0.07
1536-well	Standard microplate	0.02

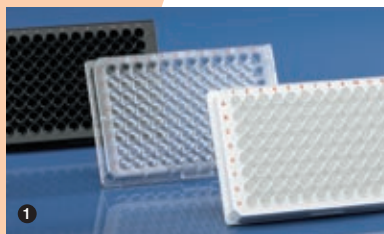
\* C-bottom: 0.25 cm<sup>2</sup>  
V-bottom: 0.33 cm<sup>2</sup>

**At a glance: Microplates for cell culture**

Surface	<b>cellGrade™</b>	<b>cellGrade™ plus</b>	<b>cellGrade™ premium</b>	<b>inertGrade™</b>
Feature	Allows cell adhesion (via serum components in media)	Enhances cell adhesion (via protein-like constitution of the surface)	Poly-D-Lysine-equivalent surface	Minimal cell adhesion and cellular activation
Application	For standard applications in cell culture	Serum-reduced cultivation for fastidious cell cultures	For fastidious cell lines; serum reduced and -free cultivation	Cultivation of cells (including normally adherent types) in suspension

# cellGrade™

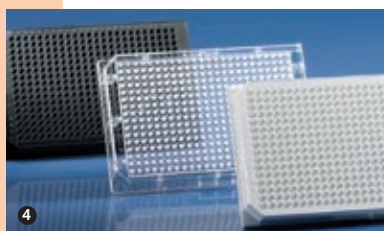
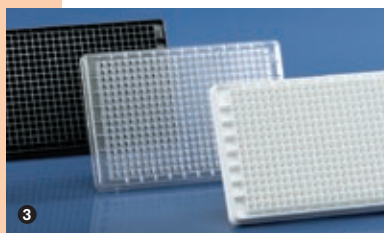
PS, sterile.  
For standard cell culture applications.



## 96-well Microplates

Pack of 50 plates (individually wrapped, with lid).

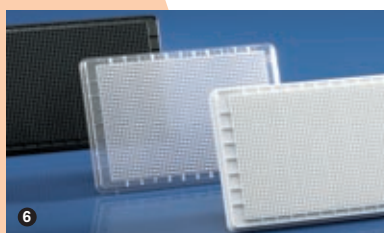
Color	Bottom	Well volume	Cat. No.
<b>1 96-well standard microplates</b>			
transparent	U-bottom	330 µl	7819 60
transparent	V-bottom	360 µl	7819 61
transparent	F-bottom	350 µl	7819 62
transparent	C-bottom	350 µl	7819 63
white	F-bottom	350 µl	7819 65
black	F-bottom	350 µl	7819 68
<b>2 96-well microplates with transparent bottom</b>			
white	F-bottom	330 µl	7819 70
black	F-bottom	330 µl	7819 71



## 384-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>3 384-well standard microplates</b>			
transparent	F-bottom	100 µl	7819 80
white	F-bottom	100 µl	7819 81
black	F-bottom	100 µl	7819 82
<b>4 384-well low volume microplates</b>			
transparent	F-bottom	30 µl	7819 83
white	F-bottom	30 µl	7819 84
black	F-bottom	30 µl	7819 85
<b>5 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7819 86
black	F-bottom	120 µl	7819 87



## 1536-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>6 1536-well standard microplates</b>			
transparent	F-bottom	10 µl	7820 00
white	F-bottom	10 µl	7820 01
black	F-bottom	10 µl	7820 02

## cellGrade™ plus

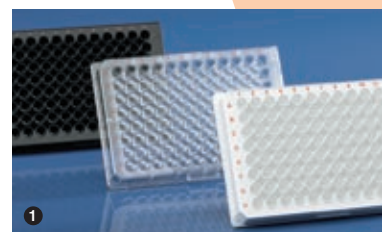
PS, sterile.

For cultivation of fastidious cell lines and for serum-reduced cultivation.

### 96-well Microplates

Pack of 50 plates (individually wrapped, with lid).

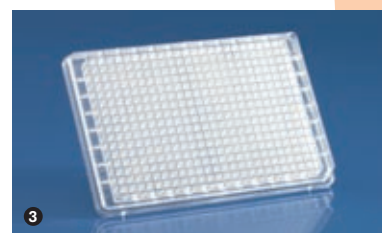
Color	Bottom	Well volume	Cat. No.
<b>① 96-well standard microplates</b>			
transparent	F-bottom	350 µl	7820 22
white	F-bottom	350 µl	7820 25
black	F-bottom	350 µl	7820 28
<b>② 96-well microplates with transparent bottom</b>			
white	F-bottom	330 µl	7820 30
black	F-bottom	330 µl	7820 31



### 384-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>③ 384-well standard microplates</b>			
transparent	F-bottom	100 µl	7820 40
<b>④ 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7820 46
black	F-bottom	120 µl	7820 47



## cellGrade™ premium

PS, sterile.

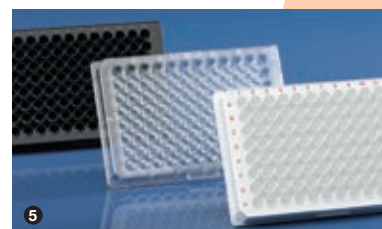
For the most demanding cell lines, and for serum-reduced and serum-free cultivation.

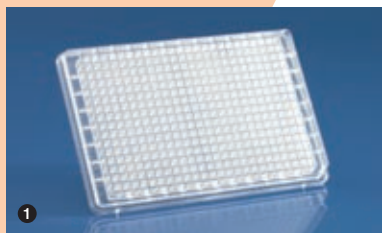
### 96-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>⑤ 96-well standard microplates</b>			
transparent	F-bottom	350 µl	7820 82
white	F-bottom	350 µl	7820 85
black	F-bottom	350 µl	7820 88
<b>⑥ 96-well microplates with transparent bottomn</b>			
white	F-bottom	330 µl	7820 90
black	F-bottom	330 µl	7820 91

cellGrade™ premium 384-well microplates, see next page.





cellGrade™ premium 96-well microplates, see previous page.

## 384-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>1 384-well standard microplates</b>			
transparent	F-bottom	100 µl	7821 00
<b>2 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7821 06
black	F-bottom	120 µl	7821 07

## inertGrade™ \*

PS, sterile.  
For cultivation of suspension and stem cells.

## 96-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>3 96-well standard microplates</b>			
transparent	U-bottom	330 µl	7819 00
transparent	F-bottom	350 µl	7819 02
white	U-bottom	330 µl	7819 04
white	F-bottom	350 µl	7819 05
white	C-bottom	350 µl	7819 06
black	U-bottom	330 µl	7819 07
black	F-bottom	350 µl	7819 08
black	C-bottom	350 µl	7819 09
<b>4 96-well microplates with transparent bottom</b>			
white	F-bottom	330 µl	7819 10
black	F-bottom	330 µl	7819 11

## 384-well Microplates

Pack of 50 plates (individually wrapped, with lid).

Color	Bottom	Well volume	Cat. No.
<b>5 384-well standard microplates</b>			
transparent	F-bottom	100 µl	7819 20
white	F-bottom	100 µl	7819 21
black	F-bottom	100 µl	7819 22
<b>6 384-well microplates with transparent bottom</b>			
white	F-bottom	120 µl	7819 26
black	F-bottom	120 µl	7819 27

\* available in 2009

**BRANDplates®**  
**Microplates**

# Information



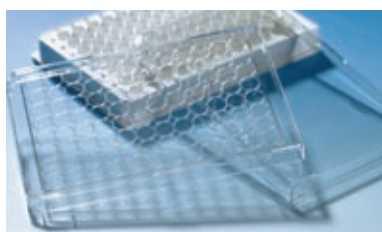
## Accessories and Technical Information

- Lids and sealing films
- Data sheets
- Customer support

# Accessories for BRANDplates® Microplates

## Lids

To protect samples, reaction batches or cell cultures from both contamination and evaporation, compatible lids are available for all BRANDplates® microplates. The lids are made of crystal-clear polystyrene. They are optimally matched to the corresponding BRANDplates® microplates, so that plates with lids can also be stacked. The cut-corner sets the orientation of the lid. For 96-well standard plates, lids with condensation rings are available.



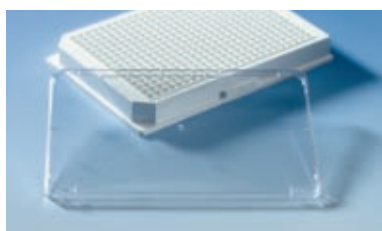
### Lids for 96-well Standard Plates

Pack of 100 lids (5 lids per bag).

Condensation rings	Height	Sterile	Cat. No.
yes	8 mm	–	7821 50
no	8 mm	–	7821 51



For BRANDplates® microplates Cat. No.:  
7816 00-08, 7816 60-68, 7817 20-29, 7817 80-89, 7818 40-49,  
7819 00-09, 7819 60-68, 7820 22-28, 7820 82-88



### Lids for 96-well Plates with Transparent Bottom

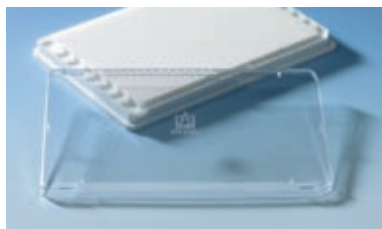
### Lids for all 384-well Plates

Pack of 50 lids (10 lids per bag).

Condensation rings	Height	Sterile	Cat. No.
no	4.5	–	7821 52



For BRANDplates® microplates Cat. No.:  
7816 10-28, 7816 70-88, 7817 31-42, 7818 00-02, 7818 50-67,  
7819 10-27, 7819 70-87, 7820 30-47, 7820 90-7821 07



### Lids for all 1536-well Plates

Pack of 50 lids (10 lids per bag).

Condensation rings	Height	Sterile	Cat. No.
no	5.5	–	7821 53



For BRANDplates® microplates Cat. No.:  
7816 40-42, 7817 00-02, 7820 00-02

## Sealing Films, Self-adhesive

In case the microplates need not only to be covered, but also securely sealed, self-adhesive sealing films are available. These film sheets can be easily applied on the plates and removed also without the use of expensive equipment. They are available in different versions and are especially well-suited for storage or cell- and tissue-culture.

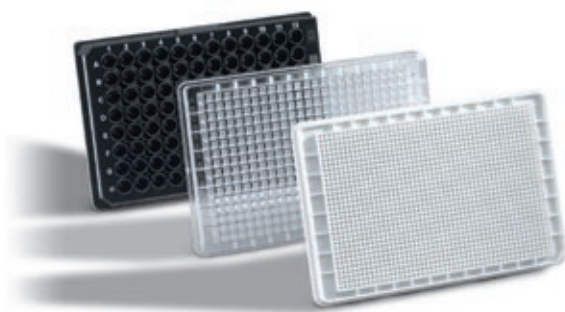
Application	Description	Material	Pack of	Cat. No.
ELISA, PCR	single film	polypropylene	100 sheets	7813 90
ELISA, Real-Time PCR	single film, highly transparent	polyester	100 sheets	7813 91
Cold storage	roll with 100 sheets	aluminium	1 roll	7813 80
Cold storage	single film	aluminium	100 sheets	7813 81
Storage	single film, DMSO-resistant	polypropylene	100 sheets	7013 66
Cell and tissue culture	single film, gas-permeable	rayon	100 sheets	7013 64
Cell and tissue culture	single film, gas-permeable, sterile	rayon	50 sheets	7013 65
Automation	single film	PE/PP	50 sheets	7013 70
Storage, fluorescence measurem.	single film	vinyl	50 sheets	7013 71
Luminescence measurements	single film	vinyl	50 sheets	7013 72



## Roller

The self-adhesive films can be securely and easily applied with a roller. The hard rubber roller ensures that the film is attached to the plate with a uniform pressure. The rugged handle with comfort-grip lessens fatigue.

Cat. No.	7013 80
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# Technical Information about BRANDplates® Microplates

## Dimensions of the microplates

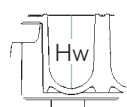
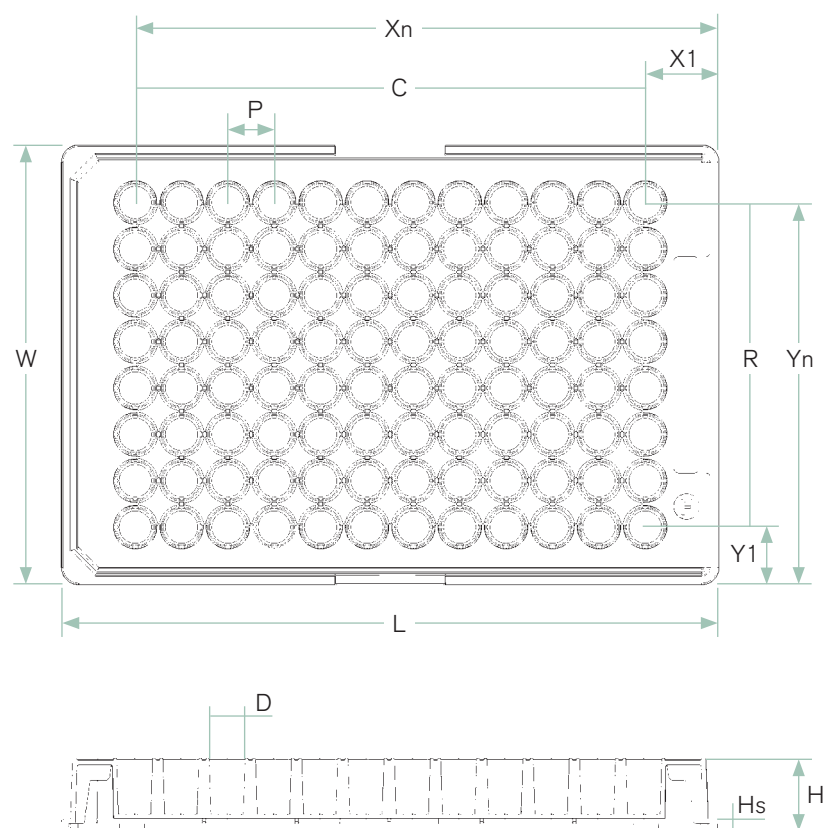
All BRANDplates® microplates are manufactured according to the requirements of the ANSI-/SBS-standards 1 to 4 - 2004. This ensures the compatibility of the microplates when performing automated processes. For some automated systems, knowledge of the exact dimensions of the microplates is required.

This information for all BRANDplates® microplates is made available in the following section. For your documentation, technical data sheets for all microplates are also available and can be requested via e-mail at [info@brand.de](mailto:info@brand.de).

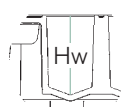
L	127.71 mm
W	85.43 mm
H	14.10 mm
Hs	2.45 mm
X1	14.36 mm
Xn	113.36 mm
Y1	11.22 mm
Yn	74.22 mm
P	9.00 mm
D	6.94 mm
Hw (U-bottom)	10.85 mm
Hw (V-bottom)	11.65 mm
Hw (F-bottom)	10.65 mm
Hw (C-bottom)	10.85 mm
C	12
R	8

BRANDplates® microplates Cat. No.:  
 7816 00, 7816 01, 7816 02, 7816 03,  
 7816 04, 7816 05, 7816 07, 7816 08,  
 7816 60, 7816 61, 7816 62, 7816 63,  
 7816 65, 7816 68, 7817 20, 7817 21,  
 7817 22, 7817 23, 7817 24, 7817 26,  
 7817 27, 7817 29, 7817 80, 7817 82,  
 7817 83, 7817 84, 7817 86, 7817 87,  
 7817 89, 7818 40, 7818 41, 7818 42,  
 7818 43, 7818 44, 7818 46, 7818 47,  
 7818 49, 7819 00, 7819 02, 7819 04,  
 7819 05, 7819 06, 7819 07, 7819 08,  
 7819 09, 7819 60, 7819 61, 7819 62,  
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 7820 25, 7820 28, 7820 82, 7820 85,  
 7820 88

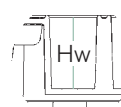
## 96-well Standard Plates



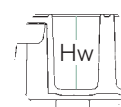
U-bottom



V-bottom

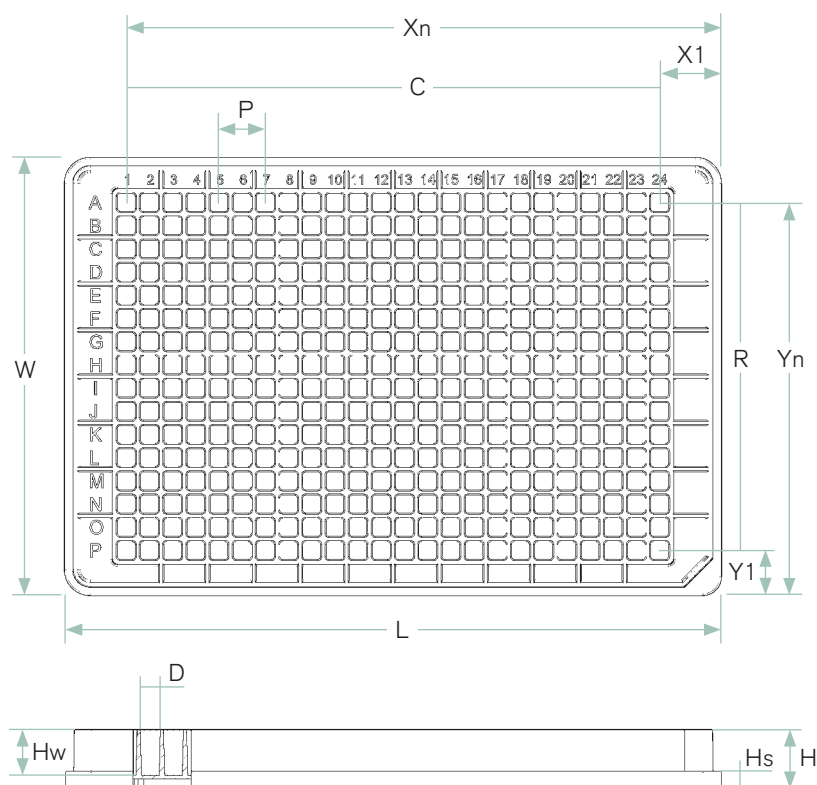


F-bottom



C-bottom

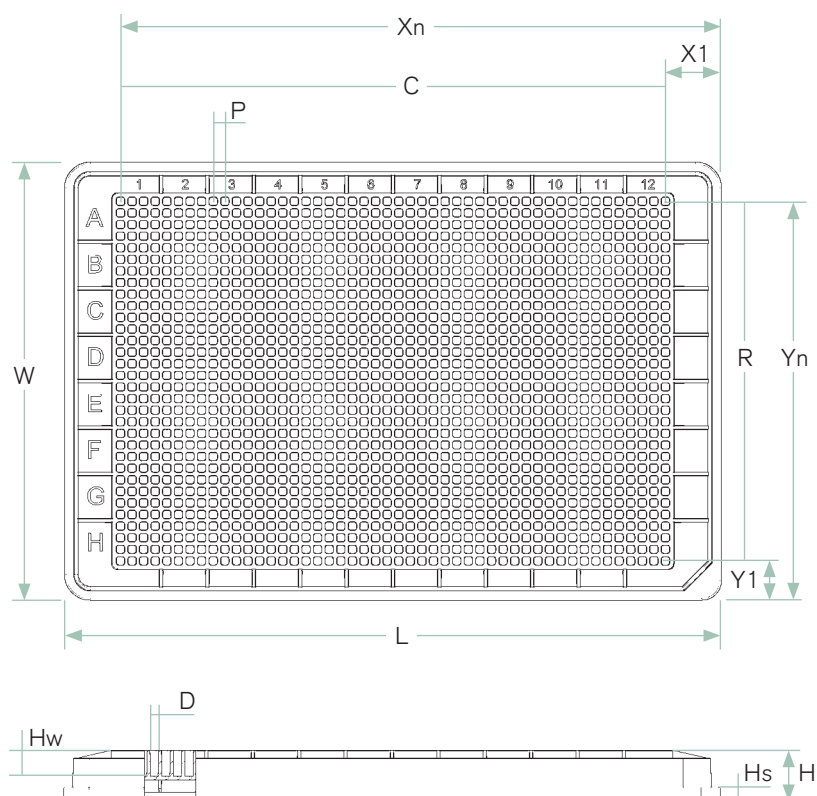
## 384-well Standard Plates



L	127.55 mm
W	85.05 mm
H	11.50 mm
Hs	3.50 mm
X1	12.03 mm
Xn	115.53 mm
Y1	8.78 mm
Yn	76.28 mm
P	4.50 mm
D	3.90 mm
Hw	8.85 mm
C	24
R	16

BRANDplates® microplates Cat. No.:  
 7816 20, 7816 21, 7816 22, 7816 28,  
 7816 80, 7816 81, 7816 82, 7816 88,  
 7817 40, 7817 41, 7817 42, 7818 00,  
 7818 01, 7818 02, 7818 60, 7818 61,  
 7818 62, 7819 20, 7819 21, 7819 22,  
 7819 80, 7819 81, 7819 82, 7820 40,  
 7821 00

## 1536-well Standard Plates



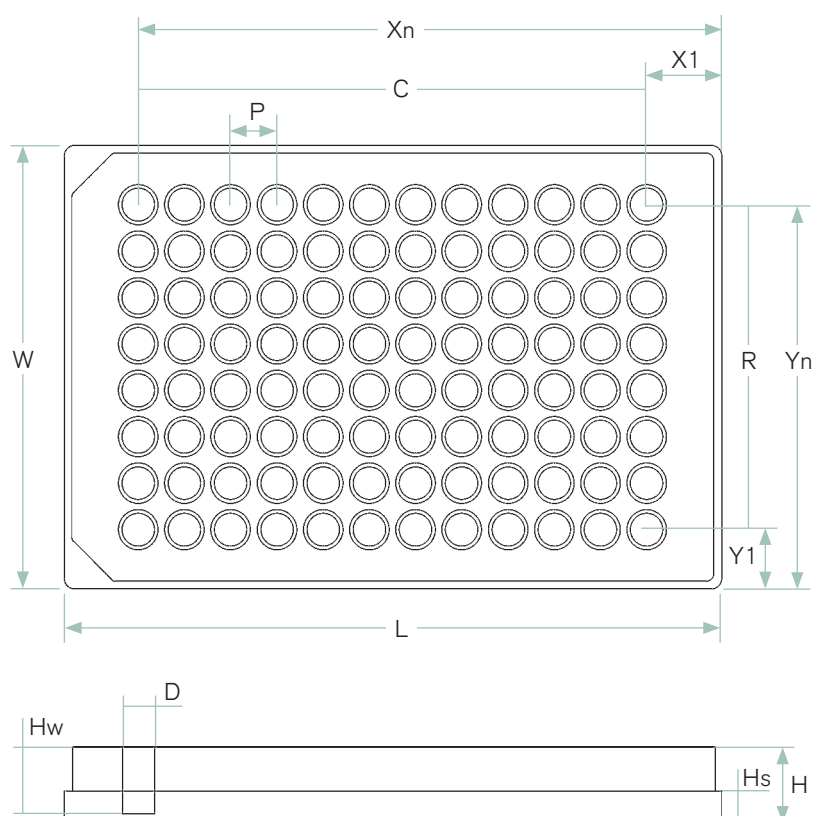
L	127.50 mm
W	85.00 mm
H	10.00 mm
Hs	2.90 mm
X1	10.88 mm
Xn	116.63 mm
Y1	7.63 mm
Yn	77.38 mm
P	2.25 mm
D	1.70 mm
Hw	5.00 mm
C	48
R	32

BRANDplates® microplates Cat. No.:  
 7816 40, 7816 41, 7816 42, 7817 00,  
 7817 01, 7817 02, 7820 00, 7820 01,  
 7820 02

L	127.60 mm
W	85.60 mm
H	14.70 mm
Hs	6.40 mm
X1	14.40 mm
Xn	113.40 mm
Y1	11.50 mm
Yn	74.50 mm
P	9.00 mm
D	6.30 mm
Hw	11.15 mm
C	12
R	8

BRANDplates® microplates Cat. No.:  
 7816 10, 7816 11, 7816 70, 7816 71,  
 7817 31, 7818 50, 7818 51, 7819 10,  
 7819 11, 7819 70, 7819 71, 7820 30,  
 7820 31, 7820 90, 7820 91

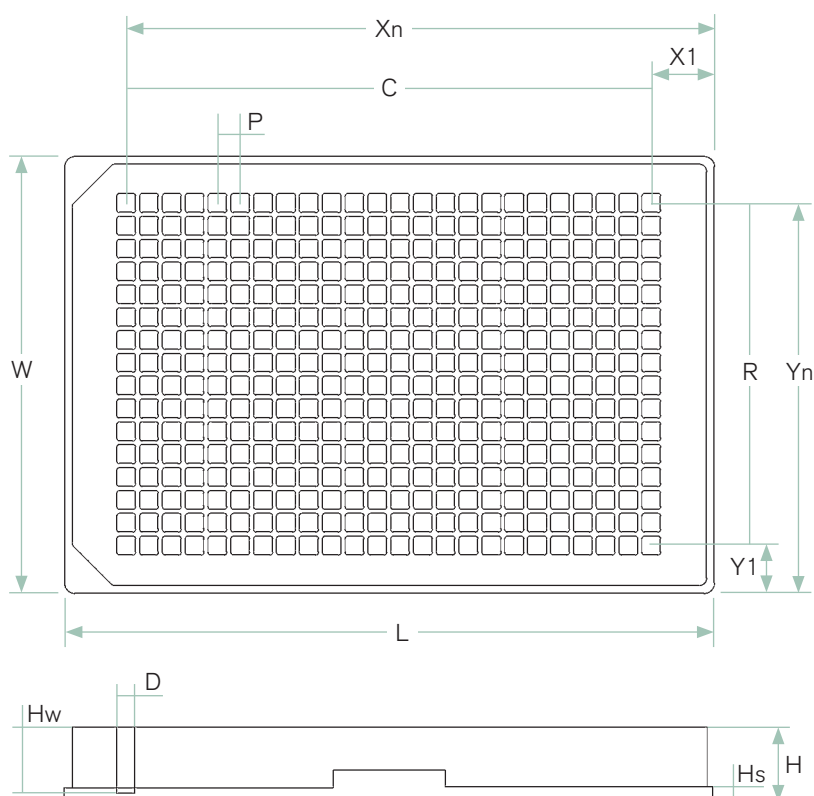
## 96-well Plates with Transparent Bottom



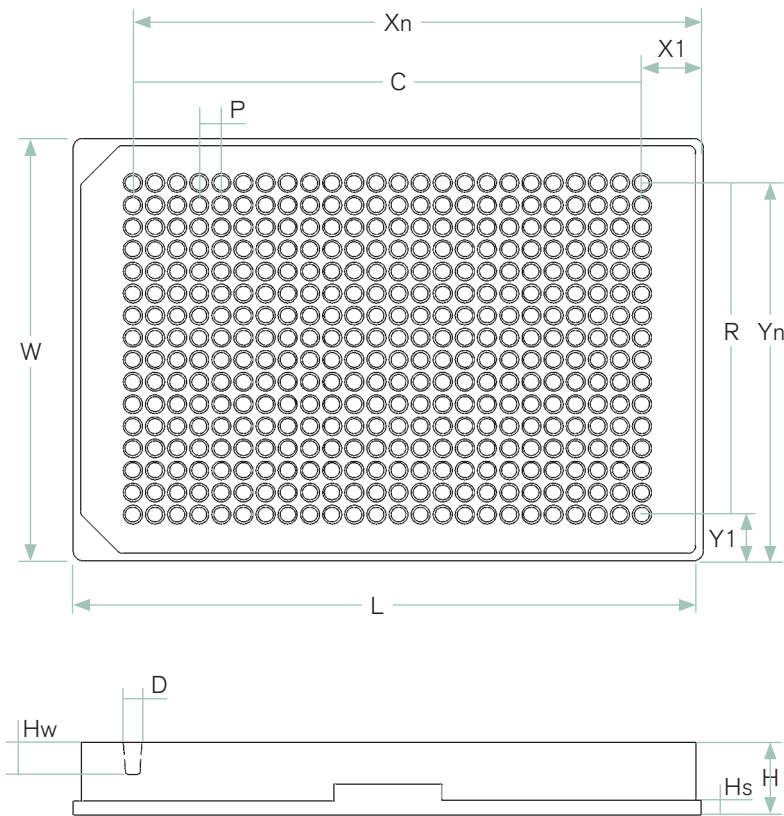
L	127.60 mm
W	85.60 mm
H	14.80 mm
Hs	2.75 mm
X1	12.10 mm
Xn	115.60 mm
Y1	9.10 mm
Yn	76.60 mm
P	4.50 mm
D	3.65 mm
Hw	11.95 mm
C	24
R	16

BRANDplates® microplates Cat. No.:  
 7816 26, 7816 27, 7816 86, 7816 87,  
 7818 66, 7818 67, 7819 26, 7819 27,  
 7819 86, 7819 87, 7820 46, 7820 47,  
 7821 06, 7821 07

## 384-well Plates with Transparent Bottom

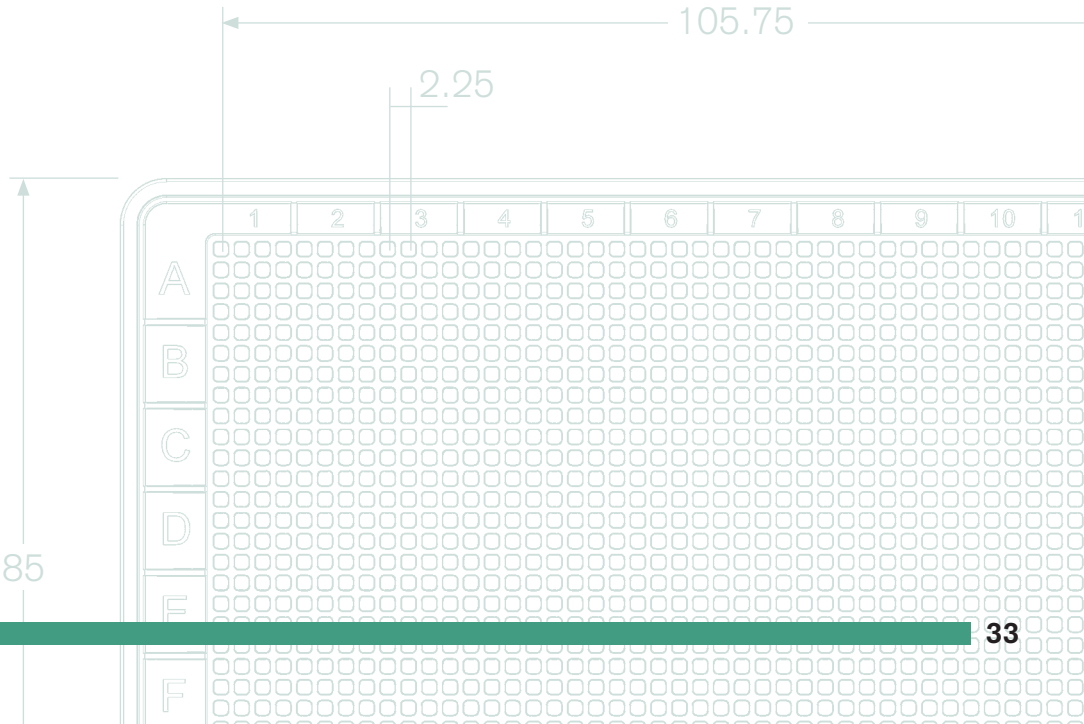


384-well Plates Low Volume



L	127.70 mm
W	85.70 mm
H	15.05 mm
Hs	6.25 mm
X1	12.10 mm
Xn	115.60 mm
Y1	9.10 mm
Yn	76.60 mm
P	4.50 mm
D	3.00 mm
Hw	6.50 mm
C	24
R	16

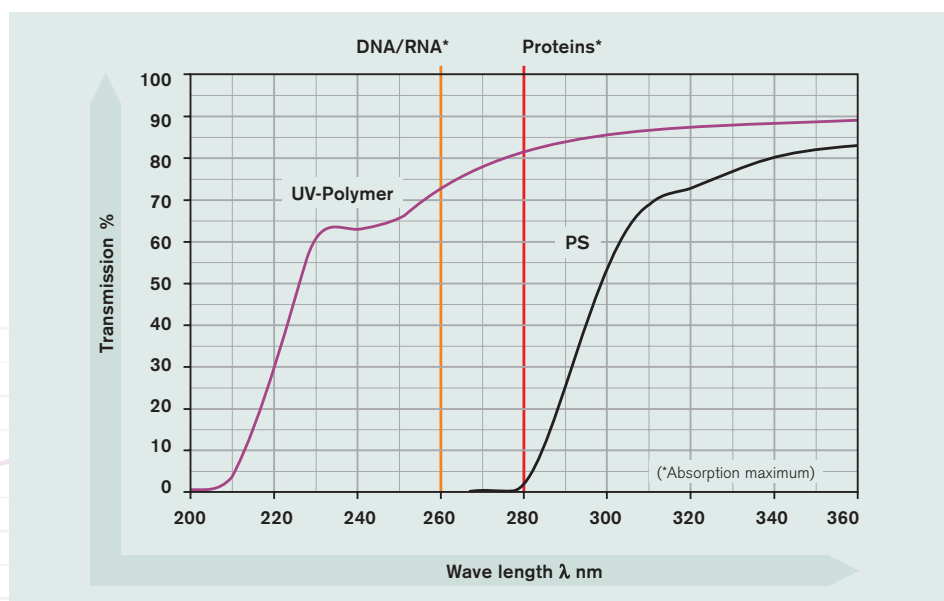
BRANDplates® microplates Cat. No.:  
7816 23, 7816 24, 7816 25, 7816 83,  
7816 84, 7816 85, 7818 63, 7818 64,  
7818 65, 7819 83, 7819 84, 7819 85



## Resistance of Frequently Used Plastics

Media	UV-Polymer	PS	PP
Acetic acid, 100%	+	–	+
Acetone	+	–	+
Ammonia	+	+	+
Benzaldehyde	+	–	+
Benzene (Benzol)	–	–	+
Chloroform	–	–	–
Dioxane	+	–	+
DMF	+	–	+
DMSO (Dimethylsulfoxide)	+	–	+
Ethyl acetate	+	–	+
Hexane	–	–	+
Hydrochloric acid, 36%	+	+	+
Hydrofluoric acid, 10%	+	+	+
Isopropanol	+	+	+
Methanol	+	+	+
Nitric acid, 65%	+	–	–

## Transmission of PS and UV-Polymers



More detailed information about the physical characteristics, and a detailed table of the chemical resistance of different plastics can be found in our current General Catalog and at [www.brand.de](http://www.brand.de)

# Customer Support

## BRANDplates® Microplates

### Selection Guide

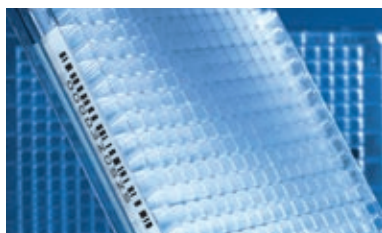
The BRANDplates® product range has grown to more than 130 different microplates. To assist you in the selection and to give a quick overview, we offer the BRANDplates® Selection Guide, available on the internet at [www.brand.de](http://www.brand.de).

By selecting different plate attributes, the product range can be narrowed according to your individual preferences. The order of attribute selection has not been predetermined; they can be chosen in any order. By clicking on the button 'Show plates', the appropriate BRANDplates® microplates satisfying the criteria selected are displayed in a clearly arranged table. Clicking on the catalog number will bring you directly to the BRAND online catalog where additional information about the plates can be obtained.

A second possibility is the 'Alternative search via applications'. Here you can pick your application from a given table and, based on the selection, appropriate plates from the BRANDplates® product range are recommended.

With the new BRANDplates® Selection Guide, finding the right plate for each application is quick and easy!





**BRAND GMBH • CO. KG**

**Specification Sheet Barcoded Microplates**

When we have received your completed specification sheet we will send you a sample microplate, to your specifications, for evaluation. Please fill in a new specification sheet for each type of bar-coded microplate. Please return this sheet to: Fax: +49 (0)52 935 355-225

**Address:**

name: \_\_\_\_\_ date: \_\_\_\_\_  
 company: \_\_\_\_\_ institute: \_\_\_\_\_  
 department: \_\_\_\_\_ building / floor: \_\_\_\_\_  
 street: \_\_\_\_\_  
 postcode + city: \_\_\_\_\_ country: \_\_\_\_\_  
 telephone: \_\_\_\_\_ fax: \_\_\_\_\_  
 email: \_\_\_\_\_ internet: \_\_\_\_\_

**Information about the barcode you require:**

Which kind of plate should be provided with a barcode?  
 Cat. No.: \_\_\_\_\_ description: \_\_\_\_\_

Barcode type: ☐ Code 39 (standard) ☐ EAN-8 ☐ IFT0  
☐ Matrix ☐ EAN-13 ☐ IFT16  
☐ 2D F Bar ☐ Xid 128 ☐ \_\_\_\_\_  
☐ Inteknow ☐ EAN 128 ☐ \_\_\_\_\_  
☐ Datamatrix ☐ Xid 128B ☐ \_\_\_\_\_

Content of the barcode: \_\_\_\_\_ e.g. 9812345 (for Code 39)

Which part of the barcode should be varied and how?  
 \_\_\_\_\_ e.g. 12345 (printing speed)

Which part of the barcode should NOT be varied?  
 \_\_\_\_\_ e.g. 98

1 / 2



## Barcoding

BRAND offers micro-, deep-well- and PCR-plates with barcodes printed directly on the plates. Direct printing makes barcoding more durable, cost-effective and flexible than using labels.

Plates are initially printed with a white base in the barcode area to form a consistent background, over which the barcode is applied. By carefully matching the plate, background and barcode print, the barcode demonstrates exceptional resistance to temperature, chemical and mechanical forces. The white background substantially improves the machine-readability of the barcode.

The barcode printing can be easily integrated in the automated production process. Individually barcoded plates are thereby both cost-efficient and available in quantities as small as 5000 plates (surface-treated plates from 1000 pcs.).

A helpful specification sheet allows the definition of individual barcode printing requirements. Additionally specific needs, such as company logo or identification of work group, can be applied on the barcoded plates.

Ask for free-of-charge samples meeting your individual specifications, without obligation at [www.brand.de](http://www.brand.de).

## Microplate Samples

Given the broad range of plates available, we would like to provide maximum assistance in the selection of the optimum plate for your application.

Once you have used the Selection Guide on our website to narrow down the product range according to your criteria, you can use the technical information data to find the chemical resistance of the materials and the plate dimensions for setting of your instruments.

Even with this information, you may still not be sure which of the BRANDplates® microplate would be the best for your specific application. For example, when you are establishing a new ELISA, and you may want to test which surface the molecule will immobilize best. Or maybe you are working with a new cell line and would like to determine on which surface the cells grow best. There is no substitute for direct experience. Feel free to request samples without cost or obligation! We would be glad to provide you information and recommend an appropriate plate for your assay.

## Customer-specific Manufacturing (Surface and Plates)

Are you having trouble finding a microplate with desired bottom shape or with a specific surface treatment? Do you have a major project for which you need a special type of packaging? Do you need to develop a special surface for your application?

With our long history of experience, BRAND is a professional partner for developing and producing high-quality plastic disposables for the laboratory. Our interdisciplinary team can help you find an optimized, individual solution for your specific requirements.



# At a Glance

## BRANDplates® Microplates

Interactive Selection Guide with more information about BRANDplates® microplates available at [www.brand.de](http://www.brand.de).

### 96-well Microplates

Type		Non-treated		Immunological surfaces			Cell culture surfaces			
<b>Standard</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
transparent	U / 330 µl	7816 00	7816 60	7817 20	7817 80	7818 40	7819 60	–	–	7819 00
transparent	V / 360 µl	7816 01	7816 61	7817 21	–	7818 41	7819 61	–	–	–
transparent	F / 350 µl	7816 02	7816 62	7817 22	7817 82	7818 42	7819 62	7820 22	7820 82	7819 02
transparent	C / 350 µl	7816 03	7816 63	7817 23	7817 83	7818 43	7819 63	–	–	–
white	U / 330 µl	7816 04	–	7817 24	7817 84	7818 44	–	–	–	7819 04
white	F / 350 µl	7816 05	7816 65	–	–	–	7819 65	7820 25	7820 85	7819 05
white	C / 350 µl	–	–	7817 26	7817 86	7818 46	–	–	–	7819 06
black	U / 330 µl	7816 07	–	7817 27	7817 87	7818 47	–	–	–	7819 07
black	F / 350 µl	7816 08	7816 68	–	–	–	7819 68	7820 28	7820 88	7819 08
black	C / 350 µl	–	–	7817 29	7817 89	7818 49	–	–	–	7819 09
<b>With transparent bottom</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
white	F / 330 µl	7816 10	7816 70	–	–	7818 50	7819 70	7820 30	7820 90	7819 10
black	F / 330 µl	7816 11	7816 71	7817 31	–	7818 51	7819 71	7820 31	7820 91	7819 11

### 384-well HTS Microplates

Type		Non-treated		Immunological surfaces			Cell culture surfaces			
<b>Standard</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
transparent	F / 100 µl	7816 20	7816 80	7817 40	7818 00	7818 60	7819 80	7820 40	7821 00	7819 20
white	F / 100 µl	7816 21	7816 81	7817 41	7818 01	7818 61	7819 81	–	–	7819 21
black	F / 100 µl	7816 22	7816 82	7817 42	7818 02	7818 62	7819 82	–	–	7819 22
<b>Standard, Low Volume</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
transparent	F / 30 µl	7816 23	7816 83	–	–	7818 63	7819 83	–	–	–
white	F / 30 µl	7816 24	7816 84	–	–	7818 64	7819 84	–	–	–
black	F / 30 µl	7816 25	7816 85	–	–	7818 65	7819 85	–	–	–
<b>Standard, UV*</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
UV-transparent	F / 100 µl	7816 28	7816 88	–	–	–	–	–	–	–
* for wavelengths down to 220 nm										
<b>With transparent bottom</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
white	F / 120 µl	7816 26	7816 86	–	–	7818 66	7819 86	7820 46	7821 06	7819 26
black	F / 120 µl	7816 27	7816 87	–	–	7818 67	7819 87	7820 47	7821 07	7819 27

### 1536-well UHTS Microplates

Type		Non-treated		Immunological surfaces			Cell culture surfaces			
<b>Standard</b>										
Color	Bottom / Well volume	pureGrade™	pureGrade™ S	immunoGrade™	hydroGrade™	lipoGrade™	cellGrade™	cellGrade™ plus	cellGrade™ premium	inertGrade™
transparent	F / 10 µl	7816 40	7817 00	–	–	–	7820 00	–	–	–
white	F / 10 µl	7816 41	7817 01	–	–	–	7820 01	–	–	–
black	F / 10 µl	7816 42	7817 02	–	–	–	7820 02	–	–	–

inertGrade™ microplates available in 2009

# BRAND Products

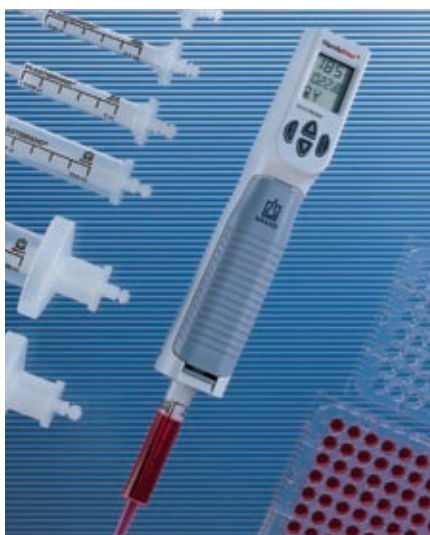
In addition to the products listed here, BRAND produces a number of devices and disposables for life science laboratories.

## Transferpette® Pipetting Systems



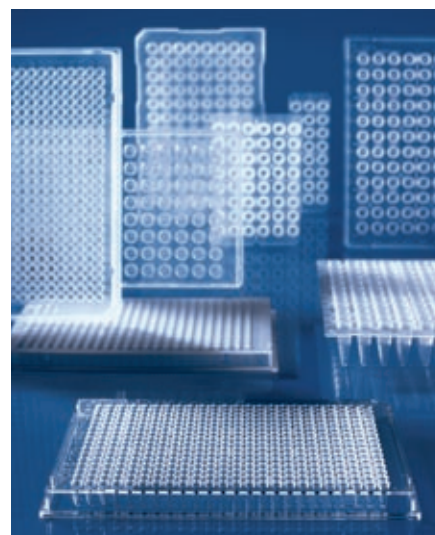
- Transferpette® S
- Transferpette® S -8/-12
- Transferpette®
- Transferpette® -8/-12
- Transferpette® electronic
- Transferpette® -8/-12 electronic
- PLASTIBRAND® Pipette Tips

## HandyStep® Repetitive Pipette



- HandyStep®
- HandyStep® electronic
- PD-Tips

## PCR Tubes, Strips, Plates



- PCR-Tubes
- PCR-Plates
- Micro Tubes

## accu-jet® pro Pipette Controller



- BLAUBRAND® Pipettes
- PLASTIBRAND® Pipettes



Additional information is available in our General Catalog and at [www.brand.de](http://www.brand.de)



Our technical literature is intended to inform and advise our customers. However, the validity of general empirical values, and of results obtained under test conditions, for specific applications depends on many factors beyond our control. Please appreciate, therefore, that no claims can be derived from our advice. The user is responsible for checking the appropriateness of the product for any particular application.

Subject to technical modification without notice. Errors excepted.

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