



**Reagecon**  
Delivering the Correct Result

# Life Science

For your success in cell culture –  
instruments and consumables from BRAND

BRAND. For lab. For life.®

# accu-jet® S pipette controller

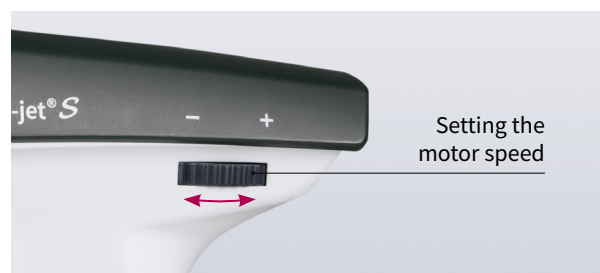


- ✓ Simple: Precise control for accurate volume setting and delicate cell culture work
- ✓ Easy: Integrated rest position
- ✓ Efficient: Service-friendly and sustainable

## User information

The technique of cell 'splitting' or 'passing' involves resuspending cell pellets in fresh medium after centrifugation. In this step, the cell solution is pipetted up and down multiple times in order to create a homogeneous cell suspension. The motor speed should be set in accordance with the medium volume and the pipette size, in order to prevent accidental inclusion of air into the medium or the exertion of too much shear force on the cells.

When using small-volume rod pipettes (< 5 ml) to seed cells into culture flasks, we recommend setting the motor to the minimum speed or completely avoiding the motor-supported blow out.



Did you know that BRAND offers a wide range of cell culture products to make your work simple, easy, and efficient? All products and qualified application support are available from your LLG partner.

# Technical information & Ordering data

**accu-jet® S**, with universal AC adapter

Items supplied: pipette controller, universal AC adapter (for Europe, UK, USA, Japan, Australia, New Zealand), Nickel-metal hydride battery, wall support, 2 spare membrane filters 0.2 µm (sterile), operating manual.

Color	Description	Cat. No.
anthracite	with universal AC adapter	4.682 331
berry	with universal AC adapter	4.682 332
petrol	with universal AC adapter	4.682 333
amethyst	with universal AC adapter	4.682 334

**accu-jet® S**

Items supplied: pipette controller, Nickel-metal hydride battery, wall support, 2 spare membrane filters 0.2 µm (sterile), operating manual.

Color	Description	Cat. No.
anthracite	without universal AC adapter	9.281 073
berry	without universal AC adapter	9.281 070
petrol	without universal AC adapter	9.281 071
amethyst	without universal AC adapter	9.281 072



accu-jet® S, anthracite



accu-jet® S, berry



All product information can be found at [shop.brand.de](http://shop.brand.de)



accu-jet® S, petrol



accu-jet® S, amethyst



Gravity delivery or blow-out with motor power



Efficient single-handed operation

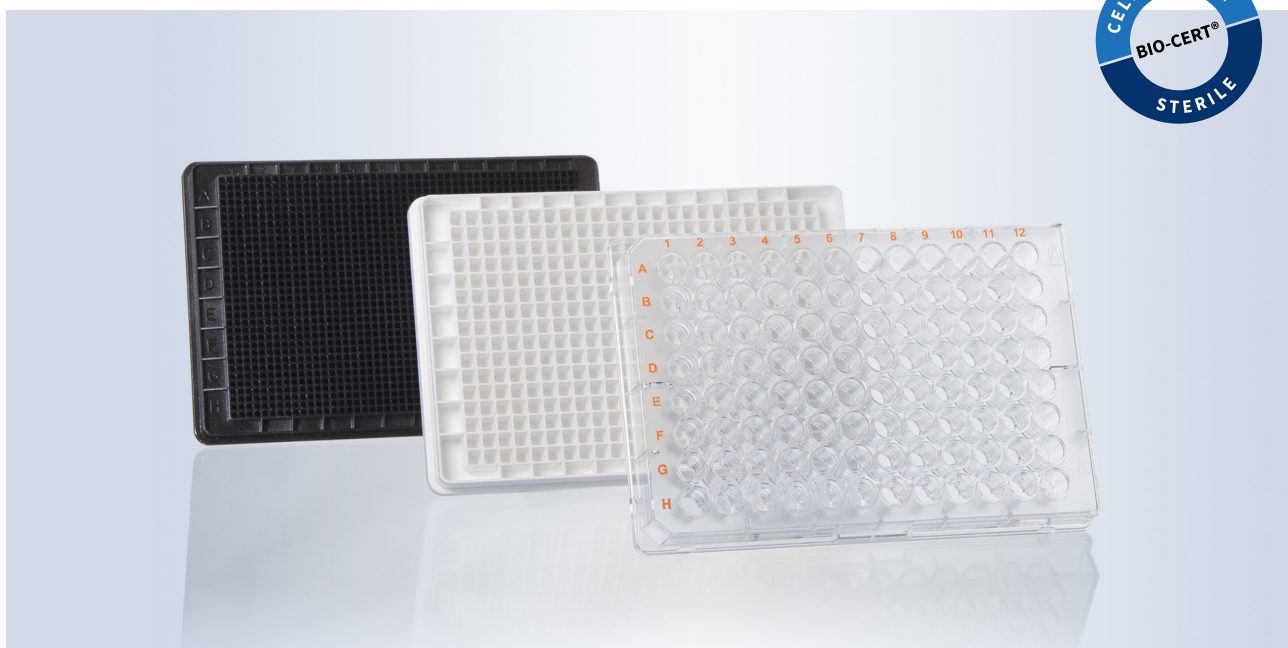
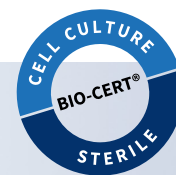


Direct outlet of sample vapors



Membrane filter and check valve prevent liquid penetration

# Microplates for cell culture



- ✓ Low well-to-well variance for good reproducibility
- ✓ cellGrade™ plus and cellGrade™ premium surfaces support serum reduction
- ✓ inertGrade surface for successful cultivation of spheroids and stem cells

## Types

### cellGrade™: for the cultivation of adherent cells

- Standard surface 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.

### 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.
- The alternative option to biologically coated surfaces.

### inertGrade™: for cultivation of suspension cells

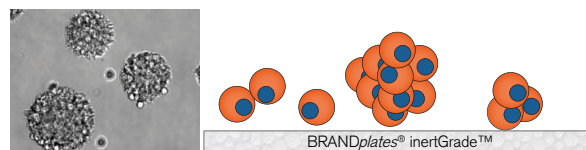
- Especially suited for cell cultures when adhesion is not desired.
- Optimized surface characteristics reduce cell adhesion, protein adsorption and keeps enzyme activation and cellular activation to a minimum.
- Inhibits early differentiation of stem cells.

## User information

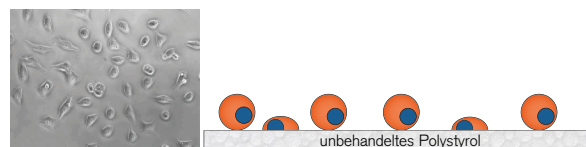
## Effects of cell culture surface on morphology and proliferation

**inertGrade™**

Supports the formation of spheroid cultures preventing early contact-induced differentiation of stem cells, due to cell repellent surface.

**Untreated polystyrene**




Supports only restricted adhesion and proliferation of cells. An excellent choice for custom coating with peptides (Poly-D-Lysine or -Ornithin) or extra-cellular matrix proteins.

**Cell culture-treated polystyrene**

Supports the adhesion and proliferation of cells with different origins. For many cell lines, further surface treatment is not required. This reduces preparation time for an assay and avoids the danger of increased well-to-well variance.



## Technical information &amp; Ordering data

Color	Bottom / Well volume	Non-treated pureGrade™		Immunological surfaces immunoGrade™		Cell culture surfaces cellGrade™ plus		inertGrade™		
			pureGrade™ S		hydroGrade™		lipoGrade™		cellGrade™ premium	
96-well microplates										
transparent	U / 330 µl	4.000 238	4.000 256	4.000 275	4.000 286	4.000 296	4.000 329	–	–	4.000 314
transparent	V / 360 µl	6.233 851	4.000 257	4.000 276	–	–	4.000 330	–	–	–
transparent	F / 350 µl	6.231 785	6.233 912	4.000 277	4.000 287	4.000 298	4.000 331	4.000 348	4.000 355	4.000 315
transparent	C / 350 µl	4.000 239	4.000 258	–	–	–	–	–	–	–
white	U / 330 µl	4.000 240	–	4.000 279	–	–	–	–	–	–
white	F / 350 µl	6.233 548	4.000 259	–	–	–	4.000 333	–	–	–
white	C / 350 µl	–	–	–	–	–	–	–	–	–
black	U / 330 µl	4.000 241	–	4.000 281	–	–	–	–	–	–
black	F / 350 µl	6.233 756	4.000 260	–	–	–	4.000 334	–	–	–
black	C / 350 µl	–	–	–	–	–	–	–	–	–
96-well microplates with transparent bottom										
white	F / 330 µl	4.000 242	4.000 261	–	–	–	4.000 335	4.000 351	4.000 358	4.000 322
white*	F / 330 µl	–	–	–	–	–	6.272 015	6.272 019	6.272 023	6.272 026
black	F / 330 µl	4.000 243	4.000 262	4.000 282	–	–	4.000 336	7.624 490	4.000 359	4.000 323
black*	F / 330 µl	–	–	7.644 453	–	–	6.272 016	6.272 020	6.272 024	6.272 027
384-well microplates										
transparent	F / 100 µl	4.000 244	4.000 263	4.000 283	–	–	4.000 337	–	–	–
white	F / 100 µl	4.000 245	4.000 264	4.000 284	–	–	4.000 338	–	–	–
black	F / 100 µl	4.000 246	4.000 265	4.000 285	–	–	4.000 339	–	–	–
384-well microplates with transparent bottom										
white	F / 120 µl	4.000 250	4.000 269	–	–	–	4.000 343	–	–	–
white*	F / 120 µl	–	–	–	–	–	6.272 017	–	–	–
black	F / 120 µl	4.000 251	4.000 270	–	–	–	4.000 344	–	–	–
black*	F / 120 µl	–	–	–	–	–	6.272 018	–	–	–

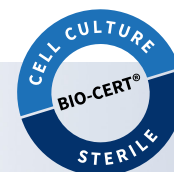
\* Pack of 5



Microplates with UV film bottom, strip plates and 1536-well UHTS microplates can be found at [shop.brand.de](http://shop.brand.de)



# Insert 2in1

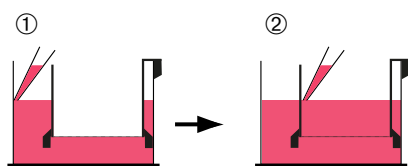


- ✓ Can be used standing or suspended
- ✓ Compatible with all ANSI standard plates
- ✓ Cell culture treated membrane for optimal cell growth

## User information

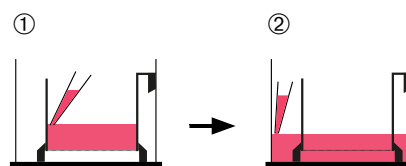
### Hanging

If you use the Insert 2in1 as a hanging insert, add the medium to the multiwell plates before hanging the insert inside the wells (make sure the medium comes into contact with the membrane). Then fill the insert with medium.



### Standing

If you would like to use the Insert 2in1 as a standing insert, place the insert into the provided multiwell plate or culture dish. Add the medium to the insert and then into the well or the culture dish.

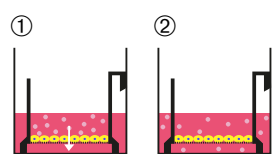


### Membrane properties

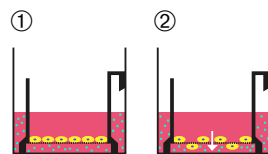
Membrane	Pore size $\mu\text{m}$	Pore density/ $\text{cm}^2$	Optic
PC membrane	0.4	$1 \times 10^8$	translucent
	8.0	$1 \times 10^5$	translucent
PET membrane	0.4	$2 \times 10^6$	transparent
	1.0	$2 \times 10^6$	transparent
	3.0	$2 \times 10^6$	transparent
	8.0	$1 \times 10^5$	translucent

### Working volume and culture area

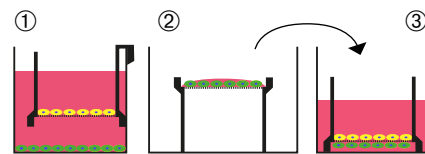
Well	Working volume $\mu\text{l}$	Culture area $\text{cm}^2$
24-well	150 - 400	0.6
12-well	300 - 1000	1.38
6-well	800 - 3000	4.83

**Transport/barrier analysis (TEER measurement), cytotoxicity**

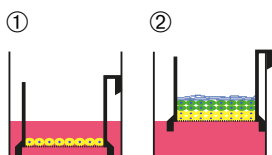
PC membrane 0.4 µm / PET membrane 1.0 µm

**Transmigration, chemotaxis**

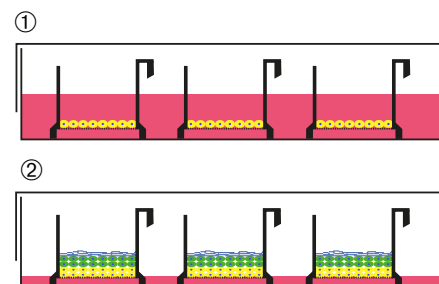
PC membrane 8.0 µm / PET membrane 3.0 µm and 8.0 µm

**Co-culture**

PC membrane 0.4 µm / PET membrane 0.4 µm and 1.0 µm

**Air-lift culture in multiwell plate**

PC membrane 0.4 µm / PC membrane 8.0 µm / PET membrane 3.0 µm

**Air-lift culture in culture dish**

PC membrane 0.4 µm / PC membrane 8.0 µm / PET membrane 3.0 µm

## Technical information & Ordering data

PS. cellGrade™ plus surface, sterile, PC and PET membrane.

Well	Pore size µm	Diameter mm	Pack of	PC membrane Cat. No.	PET membrane Cat. No.
24-well	0.4	8.8	48, single blister	4.666 309	4.666 313
	0.4	8.8	4 x 12, multi-pack	4.666 310	4.666 314
	1.0	8.8	48, single blister	–	4.684 431
	1.0	8.8	4 x 12, multi-pack	–	4.684 432
	3.0	8.8	48, single blister	–	4.684 433
	3.0	8.8	4 x 12, multi-pack	–	4.684 434
	8.0	8.8	48, single blister	4.666 311	4.666 315
	8.0	8.8	4 x 12, multi-pack	4.666 312	4.666 316
12-well	0.4	13.3	48, single blister	4.666 317	4.666 321
	0.4	13.3	4 x 9, multi-pack	4.666 318	4.666 322
	1.0	13.3	48, single blister	–	4.684 435
	1.0	13.3	4 x 9, multi-pack	–	4.684 436
	3.0	13.3	48, single blister	–	4.684 437
	3.0	13.3	4 x 9, multi-pack	–	4.684 438
	8.0	13.3	48, single blister	4.666 319	4.666 323
	8.0	13.3	4 x 9, multi-pack	4.666 320	4.666 324
6-well	0.4	24.8	24, single blister	4.666 325	4.666 329
	0.4	24.8	4 x 6, multi-pack	4.666 326	4.666 330
	1.0	24.8	24, single blister	–	4.684 439
	1.0	24.8	4 x 6, multi-pack	–	4.684 440
	3.0	24.8	24, single blister	–	4.684 441
	3.0	24.8	4 x 6, multi-pack	–	4.684 442
	8.0	24.8	24, single blister	4.666 327	4.666 331
	8.0	24.8	4 x 6, multi-pack	4.666 328	4.666 332



# More BRAND products for cell culture

Cell banking and cryo storage

Cell cultivation | microbiology

Assaying



1.1 Counting chambers



1.2 Centrifuge tubes with screw cap



2.1 seripettor®



2.2 Culture and sample tubes



3.1 Cuvettes



3.2 Microscope slides and cover glasses



1.3 Media bottle



1.4 Cryogenic tubes



2.3 Erlenmeyer flasks



2.4 Centrifuge tubes



3.3 Slide boxes



3.4 Staining troughs

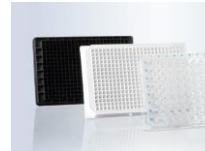
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2.5 Petri dishes



2.6 Inoculation loop



4. Assay plates

Did you know that BRAND offers a wide range of cell culture products to make your work simple, easy, and efficient? All products and qualified application support are available from your LLG partner.

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