

Proud to support:

**vetlife**  
Support for the  
veterinary community

**B | BRAUN**  
SHARING EXPERTISE



100% recyclable

## B. BRAUN VETCARE

REDUCING PLASTIC WASTE WITH  
ECOFLAC® PLUS AND AESCULAP® CONTAINER SYSTEMS

# B. BRAUN COMPANY PROFILE

B. Braun VetCare is a member of the B. Braun Group, one of the world's leading manufacturers of medical devices and pharmaceutical products and services. With over 64,000 employees in 64 countries, B. Braun develops high quality product systems and services for users around the world.

This brochure concentrates on our IV Therapy range however, B. Braun offers veterinary practices and hospitals an outstanding portfolio of products for Infection Prevention, Infusion Therapy, Neurosurgery, Skin and Wound Management and Surgery. These are all matched by a comprehensive range of high quality services.

Every service provided by B. Braun incorporates the entirety of our knowledge and skills, the company's deep understanding of users' needs – and over 175 years of extensive expertise. With its constantly growing portfolio of effective medical care solutions, B. Braun makes a substantial contribution towards protecting and improving health.

In developing its products, product systems and services, B. Braun collaborates with it's partners through constructive dialogue, and with the motivation to improve and innovate, enabling solutions that are both evolving and progressive.

We offer an extensive range of innovative products that meet the highest quality standards, offering best value and improved clinical outcomes within the veterinary market place.



At B. Braun VetCare we care about the health and wellbeing of people in the Veterinary community, and to showcase this we are proud to support UK charity Vetlife.

### ABOUT VETLIFE

Vetlife is an independent charity that provides free and confidential support to anyone in the UK veterinary community who has emotional, health or financial problems.

Vetlife fund and manage 3 support services in order to achieve this:



VETLIFE  
HELPLINE



VETLIFE  
HEALTH SUPPORT



VETLIFE  
FINANCIAL SUPPORT

Today, the charity is providing more support than ever. 2018 was Vetlife helpline's busiest year, and in the last five years they have had an increase in calls and emails of over 500%.



Please note: Medical devices supplied by B. Braun Medical are certified for use (CE marked) in humans

# REDUCING PLASTIC WASTE WITH ECOFLAC® PLUS



## 100% recyclable

Ecoflac® plus can be easily recycled, as no additives are added for the production of the container.



## No toxic emissions

Ecoflac® Plus container is made of polyethylene which, like all hydrocarbons burns cleanly. When incinerated, the container biodegrades completely and residue-free into the natural elements of our environment, water (H<sub>2</sub>O) and carbon dioxide(CO<sub>2</sub>).



## Low amount of waste

Unlike most flexible bags, Ecoflac® Plus containers have no outer packaging and thereby produce a lower amount of waste. It is also much lighter than glass containers.

Environmental Benefits

- Ecoflac® Plus 100% recyclable
- It is easy to dispose of and only produces a low amount of waste
- When incinerated, it only generates CO<sub>2</sub> and H<sub>2</sub>O – no toxic emissions
- PVC, Latex and DEHP free



# ECOFLAC® PLUS

LOOKS LIKE A BOTTLE. ACTS LIKE A BAG

## BENEFITS

Ecoflac® Plus combines the benefits of a bag and those of a bottle in a easy to handle container. This offers a clear label for reading and there is no need to vent.

## DISPOSAL

Ecoflac® Plus is 100% recyclable and is made of polyethylene which burns cleanly. When incinerated, the container biodegrades completely, residue-free, into the natural elements of our environment, water and carbon dioxide.

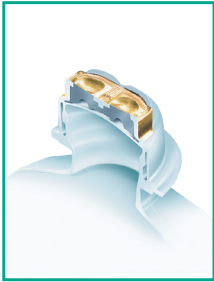
## MATERIAL

The Ecoflac® Plus container is free of PVC, DEHP and latex. It is made from low density polyethylene, a non-toxic and chemically inert material. This allows the addition of a wide range of pharmaceuticals.



## ADDITIONS (TWINCAP)

Sealed with a protective aluminium cover. The Ecoflac® Plus container has two sterile ports which can be used for infusion and or drug additives. The latex free ports have a unique feature in that they reseal within seconds of removing the infusion/additive device, ensuring safety from spillages.



## HANDLING

Ecoflac® Plus has the appearance of a bottle, but it is not breakable. It is virtually free of particulates and does not require venting for standard infusions (for advice on pressure infusions, please contact your B. Braun representative for further information). The Ecoflac® Plus containers are easy to count and store, either standing upright or laying on their side.

## LABEL

Unlike a bag, the unique design of Ecoflac® Plus allows the container to collapse in on itself during infusion, ensuring the label remains legible at all times. Scale markings appear down one side of the label, accurately showing the delivered volume, taking into account the collapsibility of the container during the infusion.



## SIZE

The Ecoflac® Plus container is available in a number of sizes, including: 1000 ml, 500 ml, 250 ml, 100 ml and 50 ml.



SOLUTIONS



B. Braun Vet Care Hartmann's Lactated Ringers

Solution for infusion for cattle, horses, sheep, goats, pigs, dogs and cats

Characteristics: Balanced Electrolyte Solution

100 ml Solution contains:

**Active substances:**  
Sodium chloride 0.600 g  
Potassium chloride 0.040 g  
Calcium chloride dihydrate 0.027 g  
Sodium (S)-lactat 0.312 g  
(as sodium lactate solution (50 % w/v) 0.624 g)

**Electrolyte concentrations (mmol/l):**  
Sodium 130.49  
Potassium 5.37  
Calcium 1.84  
Chloride 111.70  
Lactate 27.84

**Theoretical osmolarity:**  
277 mOsm/l  
Titration acidity <1 mmol/l  
pH 5.0–7.0  
Excipient:  
Water for injection, q. s.

Container	Size	B. Braun Code	Quantity
Ecoflac® Plus	500 ml	3574070	10
Ecoflac® Plus	1000 ml	3574071	10



User Benefits

- Volume and electrolyte replacement
- Treatment of mild to moderate acidosis; stabilisation of blood-pH

Sodium Chloride 0.9 g/100 ml B. Braun Vet Care

Solution for infusion for cattle, horses, sheep, goats, pigs, dogs and cats

Characteristics: Balanced Electrolyte Solution, Carrier Solution

100 ml Solution contains:

**Active substances:**  
Sodium chloride 0.9 g

**Theoretical osmolarity:**  
308 mOsm/l  
pH value: 4,5 – 7,0

Excipient:  
Water for injections

**Electrolyte concentrations (mmol/l):**  
Sodium 154  
Chloride 154

Container	Size	B. Braun Code	Quantity
Ecoflac® Plus	500 ml	3574190	10
Ecoflac® Plus	1000 ml	3574200	10



User Benefits

- For internal and external use
- Treatment in cases of hypovolaemic shock
- Mixing with many electrolyte solutions and pharmaceuticals

Glucose 5 g/100 ml B. Braun Vet Care

Solution for infusion for cattle, horses, sheep, goats, pigs, dogs and cats

Characteristics: Carbohydrate Solution, Carrier Solution

100 ml Solution contains:

**Active substances:**  
Glucose monohydrate 5.5 g  
(equivalent to anhydrous glucose 5.0 g)

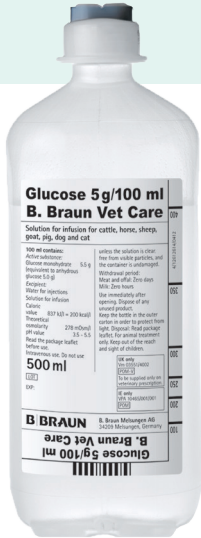
Excipient:

Water for injections

Caloric value 837 kJ/l = 200 kcal/l

**Theoretical osmolarity:**  
278 mOsm/l  
pH value 3.5 – 5.5  
Water for injection, q. s.

Container	Size	B. Braun Code	Quantity
Ecoflac® Plus	500 ml	3574140	10






User Benefits

- Therapy of hypertonic dehydration
- Provides free water for the extra and intracellular space
- Partial coverage of energy requirements
- Correction of certain electrolyte imbalances



# SOLUTIONS OVERVIEW

Type	Balanced Electrolyte Solution		Carbohydrate Solution
Product	0.9% NaCl <sup>-</sup> Solution	Hartman's Lactated Ringers	Glucose 5%
			
Na <sup>+</sup> (mmol/l)	154	130.49	-
K <sup>+</sup> (mmol/l)	-	5.37	-
Ca <sup>++</sup> (mmol/l)	-	1.84	-
Mg <sup>++</sup> (mmol/l)	-	-	-
Cl <sup>-</sup> (mmol/l)	154	111.70	-
Phosphate (mmol/l)	-	-	-
Buffer (mmol/l)	-	Lactate 27.84	-
Glucose (g/l) (anhydrous)	-	-	50.0
kJ/l	-	-	837
kcal/l	-	-	200
Theor. Osmolarity (mOsm/l)	308	277	278
500 ml	✓	✓	✓
1000 ml	✓	✓	-





# REDUCE WASTE AND SAVE TIME WITH AESCULAP® CONTAINER SYSTEMS

The Aesculap® container is a rigid sterile barrier system, ensuring surgical instrumentation is provided to the surgeon in an aseptic presentation.

## SOLUTION

Aesculap® Sterile Containers are an innovative, modern and sustainable solution that enables hospitals to adopt leaner processes, whilst reducing clinical waste and the ecological footprint created from the use of disposable products.

Offering a validated system, conforming to the current DIN EN ISO standards for packaging sterilised medical devices, Aesculap® Sterile Containers ensure the contents remain sterile and free from contamination, for a period of up to 365 days.

### VET COST SAVING EXAMPLE

KIT NAME	USES PER WEEK	CURRENT PACKING CYCLE	COST PER CYCLE	COSTS PER WEEK	COSTS PER YEAR	COST PER CYCLE	COST PER WEEK	COST PER YEAR
		WRAPS				CONTAINERS		
Ortho Kit	20	1 drape and 2 bags	£2.06	£41.20	£2,060.00	£0.56	£11.20	£560.00
Mini Driver Kit	15	1 drape and 2 bags	£2.48	£37.20	£1,860.00	£0.56	£8.40	£420.00
					£3,920.00			

### COST SAVING MODEL

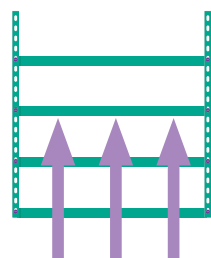
	CONTAINERS	CONSUMABLES	TOTAL COST FOR USING CONTAINERS	WRAP	WRAP DISPOSAL	TOTAL	SAVINGS
YEAR	COST		TOTAL COST	COST	COST (Clinical waste disposal will vary for each practice)		
1	£3,875.82	£980.00	£4,855.82	£3,920.00	£	£3,920.00	£935.82 PER YEAR
2		£980.00	£5,835.82	£3,920.00	£	£7,840.00	
3		£980.00	£6,815.82	£3,920.00	£	£11,760.00	
4		£980.00	£7,795.82	£3,920.00	£	£15,680.00	
5		£980.00	£8,775.82	£3,920.00	£	£19,600.00	
6		£980.00	£9,755.82	£3,920.00	£	£23,520.00	
7		£980.00	£10,735.82	£3,920.00	£	£27,440.00	
8		£980.00	£11,715.82	£3,920.00	£	£31,360.00	
9		£980.00	£12,695.82	£3,920.00	£	£35,280.00	
10 year total	£3,875.82	£8,820.00	£13,675.82	£35,280.00	£	£39,200.00	£25,524.18





# CONTAINER HIGHLIGHTS

LOWER COST PER CYCLE  
LONG-TERM SAVINGS



STRAIGHT ON THE SHELF.  
NO AIR DRYING NEEDED

TIME  
SAVING



WASTE AND COST  
REDUCTION



No wrap or bags needed,  
so reduction in waste and cost

HELPS  
PROTECT  
INSTRUMENTS



STACK IN BENCH TOP  
AUTOCLAVE



NO TORN WRAPS OR  
WET AUTOCLAVE BAGS

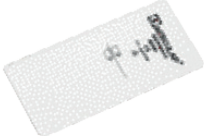





# VETERINARY STERILE CONTAINERS

## THE EXPERT FOR VETERINARY CLINICS


### FILTER




**JK091**  
Permanent filter, 1000 cleaning and sterilisation cycles  
Pack of 2



**JF166**  
Single use paper filter  
Pack of 100



**IDENTIFICATION LABEL**  
red - JG645B  
blue - JG646B  
green - JG647B  
gold - JG648B  
black - JG650B  
olive-brown - JG652B  
violet - JG653B  
orange - JG654B




**INDICATOR LABEL**  
JG687  
Pack size 100




### STERILE CONTAINER COMPLETE (LID WITH BASE, WITHOUT INSTRUMENT TRAY)


**JN092**  
Outside dim. 313 x 190 x 46 mm



**JN094**  
Outside dim. 313 x 190 x 65 mm



**JN095**  
Outside dim. 313 x 190 x 92 mm




**JN096**  
Outside dim. 313 x 190 x 130 mm

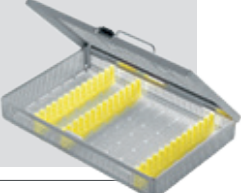


### INSTRUMENT TRAYS

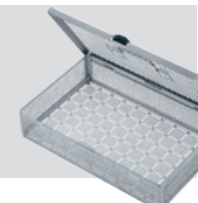
**JG383R**  
Instrument tray with lid handle, contains 3 instrument racks (JG391)  
outside dim. 273 x 176 x 30 mm



**JG384R**  
Instrument tray with lid handle, contains 3 instrument racks (JG393)  
outside dim. 273 x 176 x 41 mm

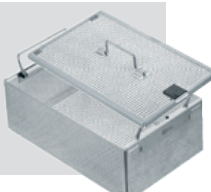


**JG285R**  
Instrument tray with lid,  
outside dim. 273 x 176 x 60 mm



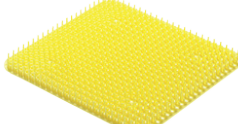
**JF289R**  
Lid  
outside dim. 273 x 176 x 100 mm

**JF2882R**  
Instrument tray

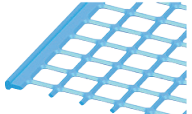


### CUT-TO-SIZE SILICONE MATS

**JF945**  
Silicone positioning mat with perforation



**JF938**  
Silicone mesh mat



### ADVANTAGES:

- Continuous annular silicone lid seals allow germ-proof closure of the container
- The locking levers double as lid handles
- Integrated springs cause consistent sealing of the sterile container
- Sterile containers can be stacked for space-saving in the sterile supplies cycle
- Quick-release filter holder for quick and easy replacement of Aesculap® sterile filters

Veterinary sterile containers are especially suited for the provision of sterile supplies in veterinary clinics. Veterinary Sterile Containers fit into all common mini sterilisers. Veterinary sterile containers are not suitable for hot-air sterilisation!



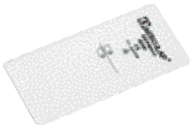
OUR CONTAINER SYSTEMS FIT IN BENCH TOP AUTOCLAVES




# MINI STERILE CONTAINERS

## FOR SMALL SETS AND SMALL INSTRUMENTS

### FILTER




**JK091**  
Permanent filter, 1000 cleaning and sterilisation cycles  
Pack of 2



**JF166**  
Single use paper filter  
Pack of 100


**IDENTIFICATION LABEL**

red - JG645B  
blue - JG646B  
green - JG647B  
gold - JG648B  
black - JG650B  
olive-brown - JG652B  
violet - JG653B  
orange - JG654B



**INDICATOR LABEL**

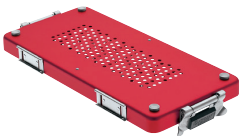
JG687  
Pack size 100



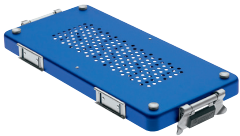


OUR CONTAINER SYSTEMS FIT IN BENCH TOP AUTOCLAVES

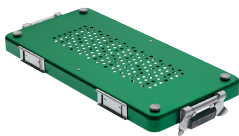
### LID



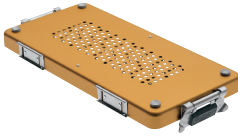
**JK170**  
red




**JK171**  
blue



**JK172**  
green



**JK173**  
gold



**JK174**  
silver

### ADVANTAGES:

- Mini sterile containers with easy-to-use locking levers
- Specially designed for small sets

Mini sterile containers were specially developed for small sets (e.g. small-wound treatment) and small, delicate instruments, especially for microsurgery.

Mini sterile containers are not suitable for hot-air sterilisation!



STERILE CONTAINER BASES



**JN188**  
Height 57 mm  
(Sterile container base with lid, outside dim. 310 x 140 x 67 mm) with base perforation

INSTRUMENT TRAYS



**JF149R**  
Instrument tray, with lid, for small objects, 2 trays fitting into an Aesculap® Mini sterile container  
outside dim. 135 x 120 x 47 mm

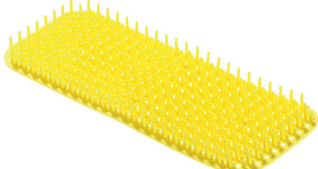


**JF159R**  
Instrument tray, with lid, for micro instruments,  
outside dim. 267 x 125 x 49 mm




**JF436R**  
Tray for arthroscope of Ø 2,7 mm or 4 mm diameter and sheath length 140 – 200 mm,  
outside dim. 273 x 84 x 41 mm

INSERTS FOR INSTRUMENT BASKETS



**JF944**  
Silicone positioning mat with perforation



**JF934**  
Silicone positioning mat, for Mini container bases



# 1/1 NORMAL STERILE CONTAINER

## BASIS LID



### IDENTIFICATION LABEL

red - JG785B  
blue - JG786B  
green - JG787B  
gold - JG788B  
black - JG790B  
olive-brown - JG792B  
violet - JG793B  
orange - JG694B



### JG744

Indicator seal with adhesive back and process indicator for steam sterilisation.  
Pack size 1000



### FILTER

#### JK090

Pack of 10  
Permanent filter  
for Basis version,  
1000 cleaning and  
sterilisation cycles



#### JK095

Pack of 100  
Single use filter for  
Basis version, paper



## STERILE CONTAINER BASES

without base perforation



### JK440

Height 90 mm  
(Container base with Basis lid,  
outside dim. 592 x 285 x 108 mm)

### JK442

Height 135 mm  
(Container base with Basis lid,  
outside dim. 592 x 285 x 153 mm)

### JK441

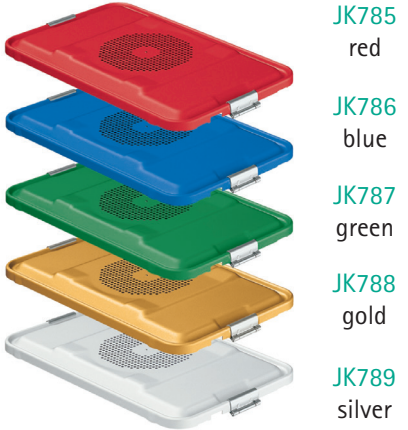
Height 120 mm  
(Container base with Basis lid,  
outside dim. 592 x 285 x 138 mm)

### JK444

Height 187 mm  
(Container base with Basis lid,  
outside dim. 592 x 285 x 205 mm)

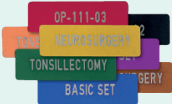
# 3/4 NORMAL STERILE CONTAINER

## BASIS LID



### IDENTIFICATION LABEL

red - JG785B  
blue - JG786B  
green - JG787B  
gold - JG788B  
black - JG790B  
olive-brown - JG792B  
violet - JG793B  
orange - JG694B



### JG744

Indicator seal with adhesive back and process indicator for steam sterilisation.  
Pack size 1000



### FILTER

#### JK090

Pack of 10  
Permanent filter  
for Basis version,  
1000 cleaning and  
sterilisation cycles



#### JK095

Pack of 100  
Single use filter for  
Basis version, paper



## STERILE CONTAINER BASES

without base perforation



### JK740

Height 90 mm  
(Container base with Basis lid,  
outside dim. 470 x 285 x 108 mm)

### JK742

Height 135 mm  
(Container base with Basis lid,  
outside dim. 470 x 285 x 153 mm)

### JK741

Height 120 mm  
(Container base with Basis lid,  
outside dim. 470 x 285 x 138 mm)

### JK744

Height 187 mm  
(Container base with Basis lid,  
outside dim. 470 x 285 x 205 mm)



### JG221R + JG227R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK440

### JG223R + JF227R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container bases JK441

### JG222R + JF227R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK440

### JG224R + JF227R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK442



### JG251R + JF257R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK740

### JG253R + JF257R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK741

### JG252R + JF257R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK740

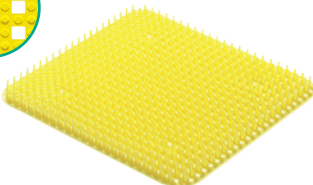
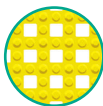
### JG254R + JF257R

Close-meshed basket  
with small handles, without feet, with lid  
fitting for container base JK742

## INSERTS FOR INSTRUMENT BASKETS

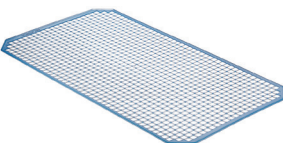
### JF949

Silicone positioning mat with  
perforation



### JF941

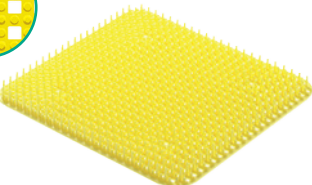
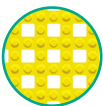
Silicone mesh mat



## INSERTS FOR INSTRUMENT BASKETS

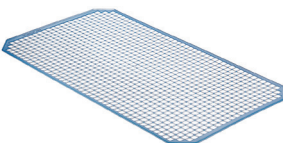
### JF947

Silicone positioning mat with  
perforation



### JF940

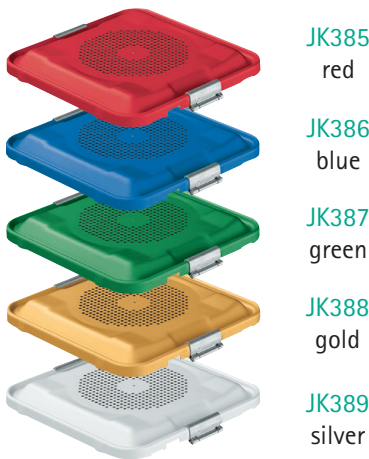
Silicone mesh mat





# 1/2 NORMAL STERILE CONTAINER

## BASIS LID



### IDENTIFICATION LABEL

red - JG785B  
blue - JG786B  
green - JG787B  
gold - JG788B  
black - JG790B  
olive-brown - JG792B  
violet - JG793B  
orange - JG694B



### JG744

Indicator seal with adhesive back and process indicator for steam sterilisation.  
Pack size 1000



### FILTER

#### JK090

Pack of 10  
Permanent filter for Basis version, 1000 cleaning and sterilisation cycles



#### JK095

Pack of 100  
Single use filter for Basis version, paper



## STERILE CONTAINER BASES

without base perforation



### JK340

Height 90 mm  
(Container base with Basis lid, outside dim. 300 x 285 x 108 mm)

### JK342

Height 135 mm  
(Container base with Basis lid, outside dim. 300 x 285 x 153 mm)

### JK341

Height 120 mm  
(Container base with Basis lid, outside dim. 300 x 285 x 138 mm)

### JK344

Height 187 mm  
(Container base with Basis lid, outside dim. 300 x 285 x 205 mm)

# OPTIC TRAYS

SEPARATE, QUICK AND RELIABLE ASEPTIC SUPPLY, INDEPENDENT OF INSTRUMENT SETS

## REPROCESSING PROCEDURE: STEAM

### LID



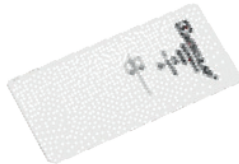
JK020

### STERILE CONTAINER BASE



JK021  
(base with lid, outside dim. 540 x 152 x 75 mm)

### FILTER



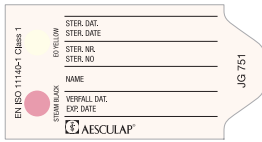
JK091

Permanent filter, 1000 cleaning and sterilisation cycles. Pack of 2



JF166

Single use paper filter, Pack of 100



JG751

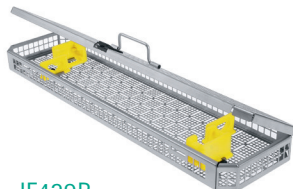
Identification label Pack of 100

## TRAYS AND ACCESSORIES SUITABLE FOR BOTH REPROCESSING METHODS



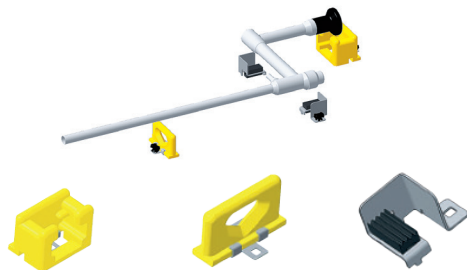
### JF435R

Tray for up to two laparoscopic optics and one light conducting cable  
501 x 134 x 45 mm



### JF429R

Tray prepared for laparoscopic optics and one light conducting cable  
(incl. 2 x JG367 + 2 x JG368 + fixation pins JG300)  
501 x 134 x 45 mm



JG367  
Eyepiece holder

JG368  
Sleeve holder

JG369  
Support for angled optics

## YOUR BENEFIT:

- Separate storage and provision of the scopes
- Quick aseptic supply independent of instrument sets
- Protection of sensitive scopes and optical light cables
- Individual design with the Aesculap® organisation system
- The seal in the lid can be easily replaced if necessary
- Protected perforation field

### Suitable sterilisation processes

Steam sterilisation: Fractionated vacuum process

Low-temperature process: Hydrogen peroxide plasma sterilisation in STERRAD® 100S, STERRAD® 200, STERRAD® NX,

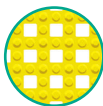
Not for gravitational process!



## INSERTS FOR INSTRUMENT BASKETS

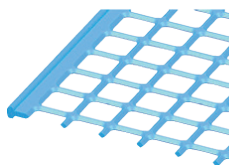
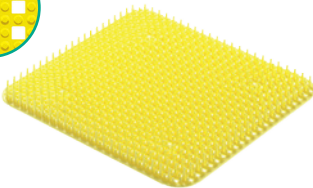
### JF945

Silicone positioning mat with perforation



### JF938

Silicone mesh mat

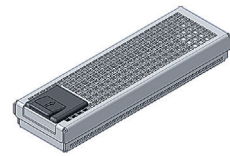


Additional sizes and variants are available



# MINI STERILE CONTAINERS

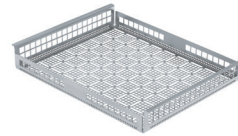
## AESCU LAP® INOS® – INSTRUMENT ORGANISATION SYSTEM



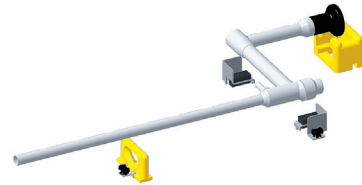
Tray for small objects | 4 mm perforation | Outside dim. 145 x 44 x 25 mm | Inner dim. 140 x 39 x 18 mm | Art. no. JF148R



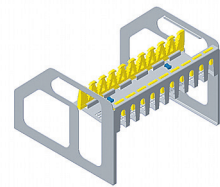
Mini tray for small objects, incl. positioning mat made of silicone | Outside dim. 236 x 72 x 27 mm | Inner dim. 230 x 66 x 20 mm | Art. no. JF155R



Basket inlay | Outside dim. 196 x 252 x 34 mm | Inner dim. 194 x 237 x 33 mm | Art. no. JF110R



Pivoted holding device for 6 screw application instruments (drills, taps, screwdriver) for installation in wire trays | 112 x 23 x 45 mm | Art. no. JG697R



Storage frame for shaft instruments | 240 x 225 x 161 mm | Art. no. JF120R



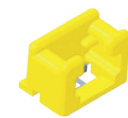
Fixation pin for ring handle instruments | 25 mm, Height 29 mm | Art. no. JF346



Holder with rail | Ø 8,5 mm | Art. no. JG342 + JG300



Pivoted holding device for 6 screw application instruments (drills, taps, screwdriver) for installation in wire trays | 112 x 23 x 45 mm | Art. no. JG697R



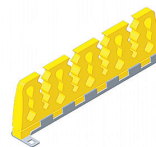
Eyepiece holder | Art. no. JG367



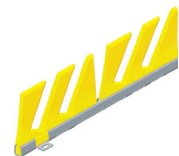
Shaft holder | Art. no. JG368



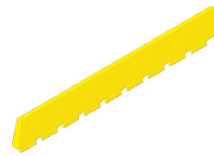
Support for angled optics | Art. no. JG369



Instrument rack | 160 x 40 mm | Art. no. JG309



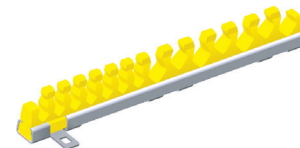
Support for spring type micro instruments handle end | 120 x 40 mm | Art. no. JG328



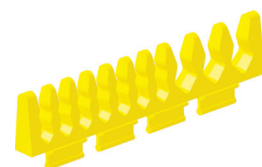
Positioning rack | 240 x 30 mm | Art. no. JG309



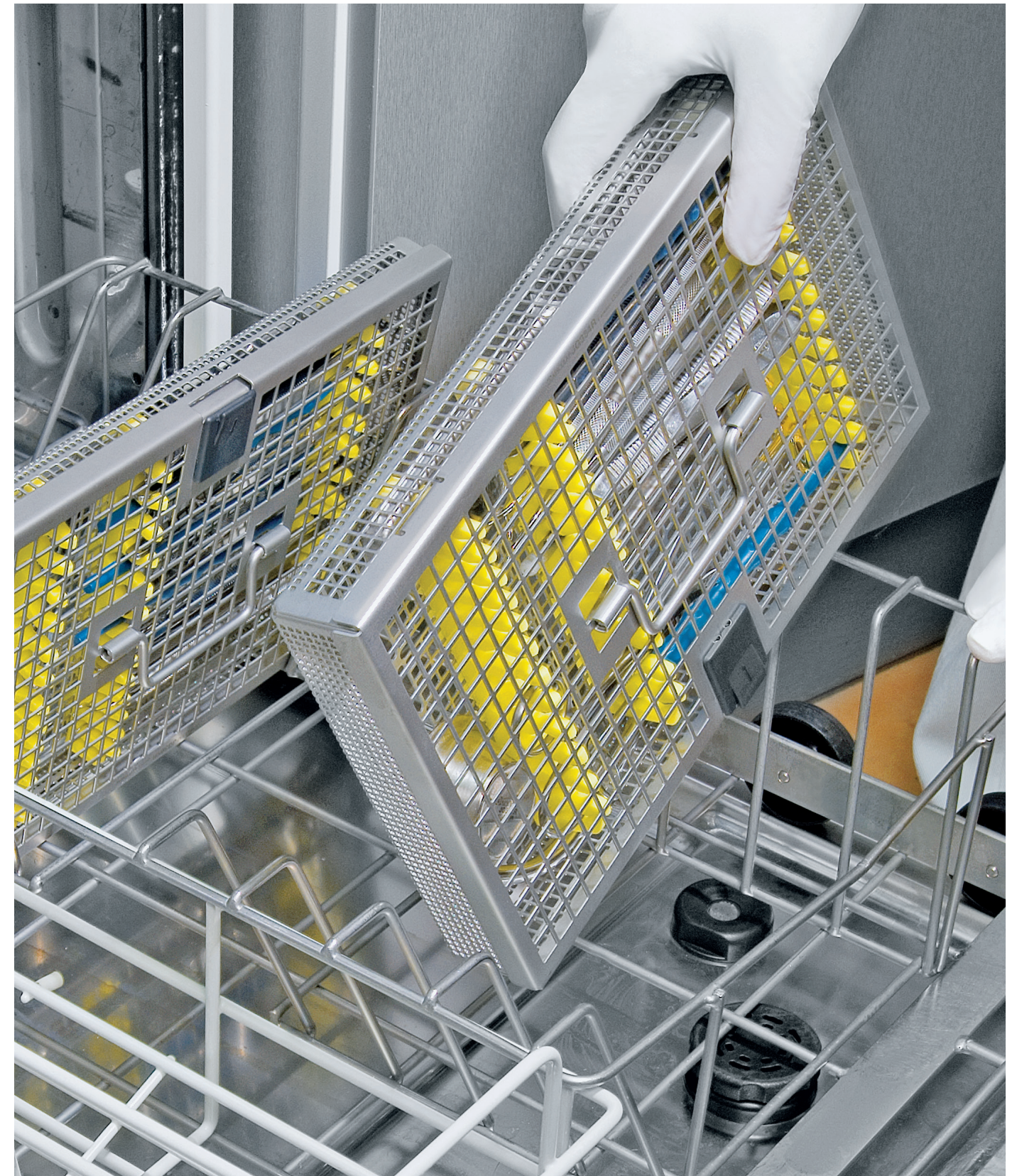
Instrument rack | 120 x 40 mm | Art. no. JG304



Instrument rack | 160 x 23 mm | Art. no. JG397



Instrument rack for trays with 30 mm height | 158 x 22 mm | Art. no. JG391





## NOTES

[illegible]

## NOTES

[illegible]



Prescribing Information

**Name of medicine**  
Glucose 5 g/100 ml B. Braun Vet Care solution for infusion for cattle, horse, sheep, goat, pig, dog and cat

**Pharmaceutical form**  
Solution for infusion.  
Clear, colourless or almost colourless aqueous solution, free from visible particles

**POM Status**  
To be supplied only on veterinary prescription

**List of active ingredients**  
100ml contains glucose monohydrate 5.5 g (equivalent to anhydrous glucose 5.0 g)

**List of excipients**  
Water for injections

**Indications for use**  
This product is administered by intravenous infusion for the treatment of dehydration, (in the absence of shock), in cattle, sheep, goats, pigs, horses, dogs and cats. It is used to replace water when it cannot be taken or retained orally. It can also be used to correct hypernatraemia (by replacing lost water) and to aid the correction of hyperkalaemia (through the promotion of insulin production which in turn causes potassium to move from plasma into cells). A glucose 5 g/100 ml infusion is not a significant calorie source but can provide transient improvement of hypoglycaemia.

**Dosage, method of use and route of administration**  
Intravenous use. Administer slowly via intravenous infusion. This product should not be administered at a rate in excess of

10 ml/kg bodyweight/hour, otherwise glycosuria and osmotic diuresis may result. Infusion rates should be calculated according to the presenting condition, bodyweight and degree of dehydration of the animal being treated. The total fluid volume to be administered should consider existing deficits, maintenance requirements and ongoing losses. IV fluids should be warmed up to body temperature prior to administration.Maintain aseptic precautions throughout administration. For single use only.

**Common adverse reactions, serious adverse reactions, precautions and contraindications**  
Do not administer to hyperglycaemic animals.  
This product is unsuitable for the correction of hypotonic dehydration. Do not use in animals with pre-existing peripheral oedema caused by a reduction in intravascular oncotic pressure. This product is not suitable as a sole source of calorie requirements or as a substitute for oral or parenteral nutrition.

This product does not contain electrolytes. Closely monitor electrolyte and phosphate balance in patients undergoing infusion of this product and adjust treatment accordingly.

This product should be used with particular caution in patients with the following conditions:  
-Diabetes mellitus  
-Intracranial or intraspinal bleeding  
-Anuria  
-Addisons disease  
-Severe or long standing hypernatraemia should be corrected gradually.

In very rare cases administration of products by intravenous infusion may increase the risk of thrombosis.

Incompatibilities with certain antibiotics (e.g. beta-lactam antibiotics, tetracyclines, sulfadiazine sodium) and heparin are recognised.

Overperfusion can lead to overhydration, hypertension and extravascular fluid accumulation. Symptoms may include respiratory distress. The administration of excess glucose can lead to hyperglycaemia, glycosuria and polyuria.

**Special warnings**  
None

Please consult the SmPC for further information.

**Basic / list price**  
£2.68 per 500ml

**Marketing authorisation number**  
Vm 03551/4002

**Name and address of MAH**  
B. Braun Melsungen AG  
Carl-Braun Strasse  
34212 Melsungen  
Germany

**Date PI was created / revised**  
October 2019

Prescribing Information

**Name of medicine**  
B. Braun Vetcare Hartmann's Lactated Ringers Solution for infusion for cattle, horse, sheep, goat, pig, dog and cat.

**Pharmaceutical form**  
Solution for infusion.  
Clear, colourless, aqueous and free from bacterial endotoxins

**POM Status**  
To be supplied only on veterinary prescription

**List of active ingredients**  
100ml contains:  
Sodium chloride 0.600 g  
Potassium chloride 0.040 g  
Calcium chloride dihydrate 0.027 g  
Sodium (S)-lactate 0.312 g  
(as sodium lactate solution (50% w/v) 0.624 g)

**List of excipients**  
Water for injections

**Indications for use**  
- Isotonic dehydration  
- Metabolic acidosis  
- Hypotonic dehydration  
- Maintenance of normal extracellular fluid levels  
- Electrolyte replacement in burns

**Dosage, method of use and route of administration**  
Intravenous use. Do not inject intramuscularly.  
The volume and rate of infusion will depend upon the clinical condition, existing deficits of the animal, maintenance needs and continuing losses. Generally aim to correct hypovolaemia by 50 % initially (ideally over 6 hours but faster if necessary) and reassess by clinical examination. Deficits are generally in the range of 50 ml/kg (mild) to 150 ml/kg (severe). An infusion rate of 15 ml/kg/ bw/hour is recommended in the absence of shock (range 5-25 ml/kg/bw/hour). In shock, high initial infusion rates, up to 90 ml/kg/bw/hour, are needed. High infusion rates should not be continued for longer than 1 hour unless urine output is restored. The maximum infusion rate should be decreased in the presence of cardiac, renal and pulmonary disease. For single use only

**Common adverse reactions, serious adverse reactions, precautions and contraindications**

This veterinary medicinal product contains calcium, thus an effect on the heart cannot be ruled out. The safety of the veterinary medicinal product has not been established during pregnancy or lactation. Use only accordingly to the benefit/risk assessment by the responsible veterinarian. No interaction with other medicinal products and other forms of interaction are known. Before administering this solution the clinical and biological data of the animal have to be carefully examined.  
Monitoring of serum electrolyte levels should be obliged in cases of electrolyte imbalances, such as hypertonic or hypotonic dehydration, or a single increase of one electrolyte (e.g. hyperchloraemia) as well. Furthermore monitoring of the acidbalance and the clinical condition of the animal should accompany the treatment with this veterinary medicinal product. This veterinary medicinal product should be used with caution in congestive heart failure, severe renal insufficiency and in animals treated with corticoids and derivates. Due to the potassium content of this solution it should be used prudently in severe renal impairment  
Do not use in animals with:  
- Alkalosis of any origin  
- Oedema (hepatic, renal, or cardiac)  
- Overhydration  
- Hyperkalaemia, hypernatraemia, hyperlactataemia  
- Hepatic insufficiency

This veterinary medicinal product is incompatible with Chlortetracycline, Amphotericin B and Oxytetracycline. Mixtures with additives and other drugs (e.g. oxalate-, phosphate- and carbonate-/hydrogen carbonate- containing ones) may cause incompatibilities. In the absence of compatibility studies, this veterinary medicinal product must not be mixed with other veterinary medicinal products.  
Overdose may result in cardiovascular overload and pulmonary oedema, which can lead to following symptoms such as restlessness, coughing and polyuria.  
In case overdose has occurred the rate of infusion should be drastically reduced or the infusion should be stopped

Consult the SPC for further information

**Basic / list price**  
£2.50 per 500ml  
£3.03 per 1000ml

**Marketing authorisation number**  
Vm: 03551/4004

**Name and address of MAH**  
B. Braun Melsungen AG  
Carl-Braun-Strasse  
34212 Melsungen  
Germany

**Date PI was created / revised**  
October 2019

Prescribing Information

**Name of medicine**  
Sodium Chloride 0.9 g/100 ml B. Braun Vet Care solution for infusion for cattle, horse, sheep, goat, pig, dog and cat

**Pharmaceutical form**  
Solution for infusion.  
Clear, colourless aqueous solution, free of particles in suspension

**POM Status**  
To be supplied only on veterinary prescription

**List of active ingredients**  
Sodium chloride 0.9 g

**List of excipients**  
Water for injections

**Indications for use**  
-States of dehydration and hypovolaemia  
-Deficiency of sodium (hyponatraemia) and chloride (hypochloraemia)  
-Hypochloraemic alkalosis management  
-Vehicle solution for compatible drugs  
-External use for wound irrigation and moistening of compresses

**Dosage, method of use and route of administration**  
Administration by intravenous route. Topical use for wound irrigation and moistening of compresses.  
The dosage and duration of treatment must be adjusted according to the specific fluid and electrolyte requirements under control of a veterinarian to prevent any possible side effects due to overdose. High infusion rates should be avoided in cases of chronic hyponatraemia.

Maximum daily dosage:  
The dosage should be adjusted individually by the veterinary upon the clinical condition of the animal

Maximum infusion rate:  
Generally, it is recommended that the infusion rate should be adapted to the existing fluid deficit. Higher infusion rates are required in case of hypovolaemic shock (dog: up to 100 ml/kg b.w./h; cat: up to 60 ml/kg b.w./h; horse, cattle, neonate calf: 50 to 80 ml/kg b.w./h). In case of long-term intravenous infusion therapy 5 to 10 ml/kg.w./h should normally not be exceeded

**Common adverse reactions, serious adverse reactions, precautions and contraindications**

Intravenous infusion carries a risk of thrombosis. (Please see SPC section 4.10 for symptoms of overdose)

Do not use in animals with:  
- Hypertonic dehydration  
- Hypernatraemia  
- Hyperchloraemia  
- Hyperhydration  
- Acidosis  
- Syndrome of oedema and ascites  
- In cases when sodium restriction are indicated

Use with caution in animals with cardiac or renal impairment as sodium overload may occur. The maximum infusion rate should be decreased in the presence of cardiac, renal and pulmonary disease.  
Use with caution post surgery/trauma as sodium excretion may be impaired.  
Use with caution in animals with hypokalaemia.  
Serum electrolyte levels, water and acid-base balance and the clinical condition of the animal should be closely monitored

during the treatment in order to prevent overdose, particularly in cases of renal or metabolic changes.  
This product should not be used for longer than is necessary to correct and sustain circulating volume. Inappropriate/excessive use may worsen or create a metabolic acidosis. The solution should be warmed to approximately 37 degrees C prior to the administration of large volumes, or if the administration rate is high, in order to avoid hypothermia

Overdose may lead to hypernatraemia, hyperchloraemia, hypokalaemia, cardiac decompensation, hyperhydration and metabolic acidosis. In these cases, the rate of infusion should be drastically reduced or even discontinued.

Please consult the SmPC for further information.

**Special warnings**  
None

**Marketing authorisation number**  
Vm 03551/4005

**Name and address of marketing authorisation holder**  
B. Braun Melsungen AG  
Carl- Braun Strasse  
34212 Melsungen  
Germany

**Basic / list price**  
£2.50 per 500ml  
£3.33 per 1000ml

**Date of revision**  
October 2019



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Tel 0114 225 9000 | Fax 0114 225 9111 | [www.bbraun-vetcare.co.uk](http://www.bbraun-vetcare.co.uk)

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