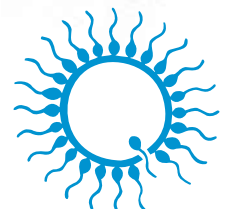
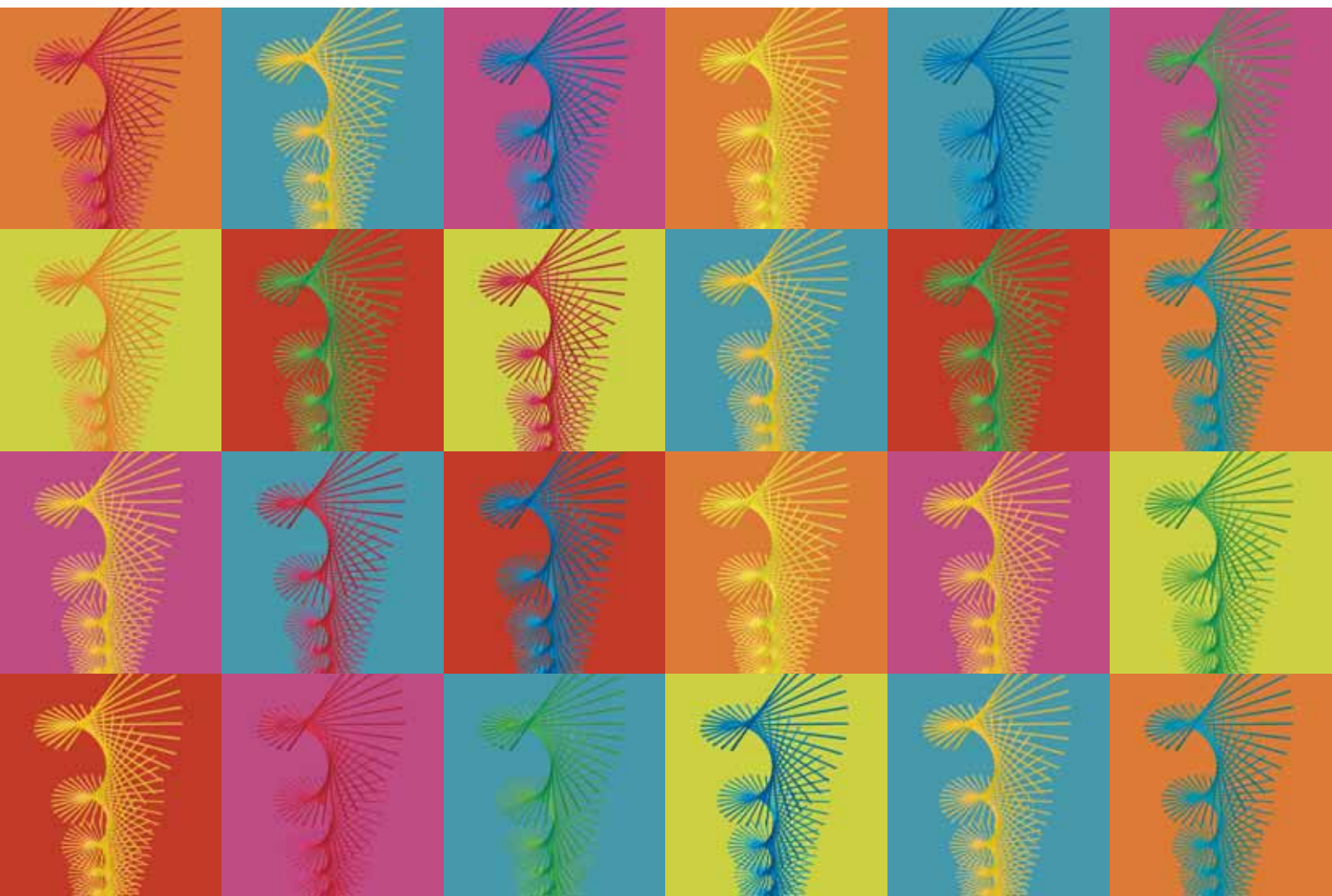




Animal Reproduction Technology
Equine



minitube



*Innovative ideas, modern production techniques
and a keen appreciation of product quality are the basic
ingredients of our knowledge and your success.*

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WORLD WIDE ACTIVITIES

Minitüb, Germany

Phone: +49 (0) 8709 9229 0
Fax: +49 (0) 8709 9229 39
E-Mail: minitube@minitube.de

Minitube of America

Phone: +1 800 646 4882
Fax: +1 608 845 1522
E-Mail: usa@minitube.com

Minitub Ibérica

Phone: +34 977 845 397
Fax: +34 977 845 398
E-Mail: info@minitub-iberica.com

Minitube Canada

Phone: +1 800 500 7978
Fax: +1 519 485 0340
E-Mail: canada@minitube.com

Minitüb Central Europe

Phone: +421 377 877 915
Fax: +421 377 877 916
E-Mail: mtce@minitube.sk

Minitube de México

Phone: +52 800 216 9282
Fax: +52 442 248 2746
E-Mail: mexico@minitube.com

Minitub Chile

Phone: +56 9 9745 2036
Fax: +56 2 2014 118
E-Mail: minitub@minitubchile.cl

Minitub do Brasil

Phone: +55 51 3222 7876
Fax: +55 51 3346 4379
E-Mail: minitub@minitube.com.br

Minitube Australia

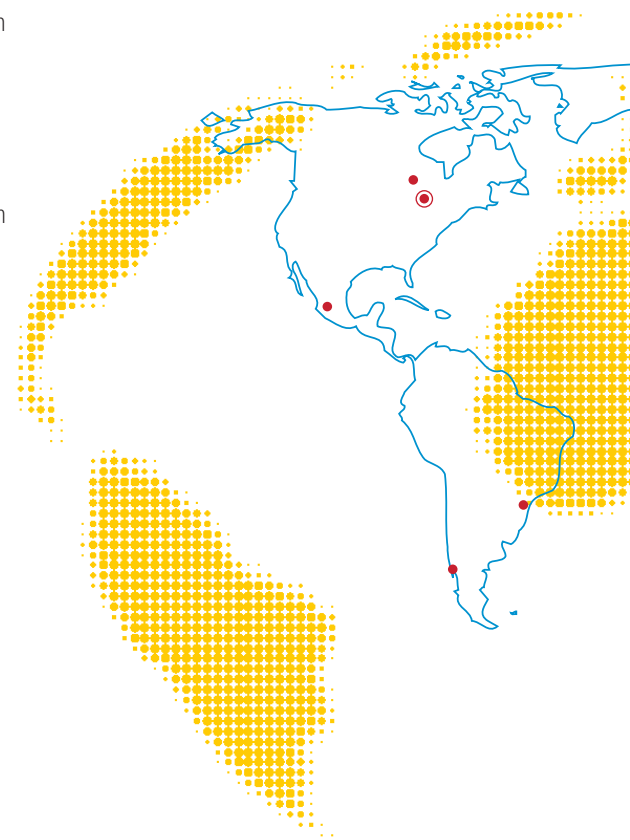
Phone: +61 3 5342 8688
Fax: +61 3 5342 8788
E-Mail: info@minitube.com.au

Minitube Indonesia

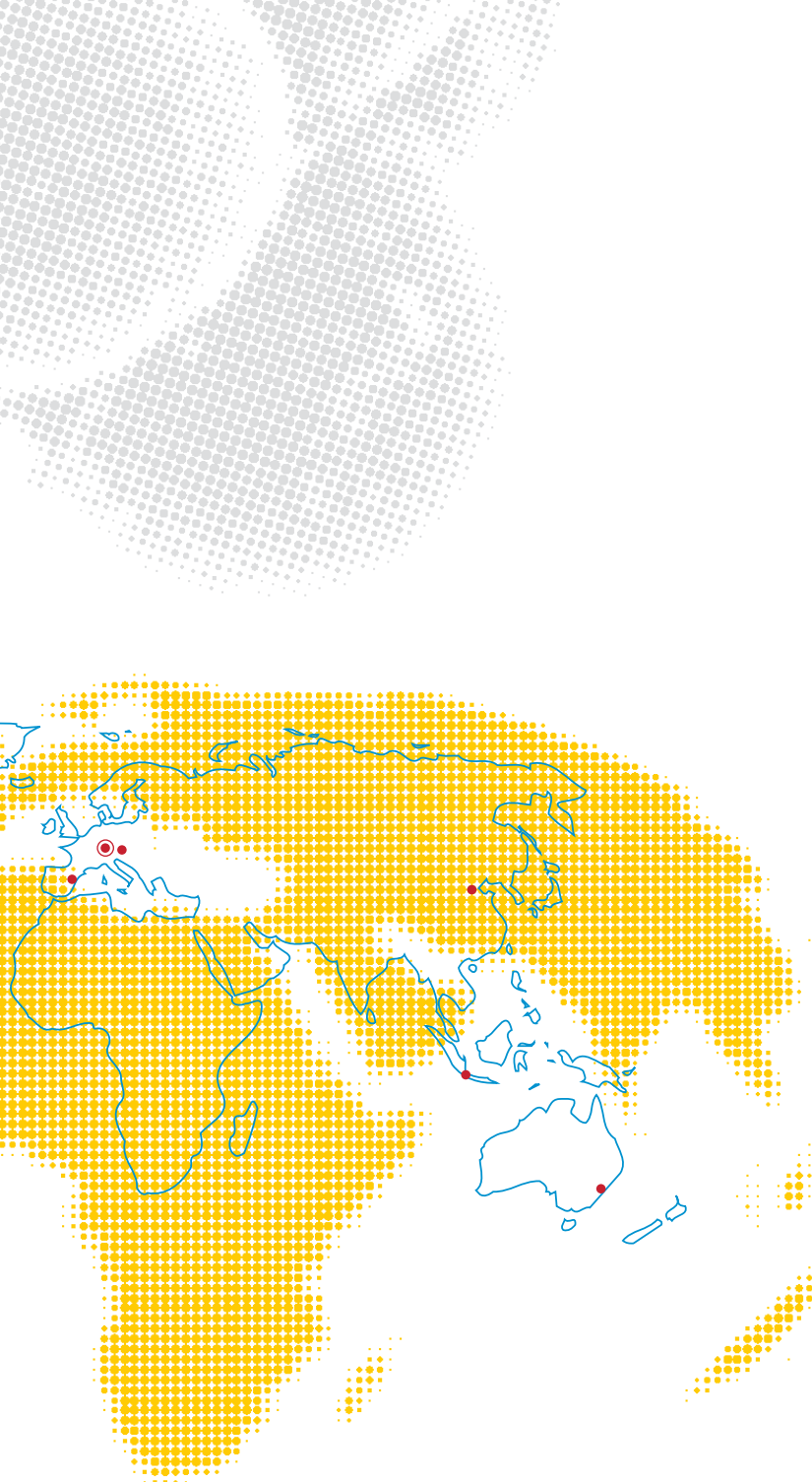
Phone: +62 21 7721 2471
Fax: +62 21 7720 4516
E-Mail: zulkifli@minitube-indonesia.com

Minitube China

Phone: +86 10 8240 3857
Fax: +86 10 8240 3785
E-Mail: minitubechina@gmail.com



If Minitube is not represented in your country, please contact Minitüb Germany.



We need detailed knowledge of reproductive physiology in order to ensure that you are successful in the use of artificial insemination. Veterinarians and agro-scientists specialised in this field therefore, are responsible at Minitüb for product development and for consulting with our clients. The technical demands of semen processing and preservation also require knowledge and expertise in other fields, such as electronics, sensorics, mechanics, chemistry, cryobiology and many others. At Minitüb, these demands are met by specially-trained engineers and scientists.

For product development, our teams of veterinarians and engineers cooperate closely. Together, they offer all the knowledge and experience necessary to guarantee the best possible results.

With Minitube of America's international centre for biotechnology in Wisconsin, USA, the Minitüb group relies on high capacity facilities for training and research. Here we conduct fundamental research concerning assisted reproduction technologies as well as applied research that leads to improved techniques in production, evaluation and conservation of semen and embryos. Important elements are furthermore biotechnical services for our customers, as well as training and technology transfer.

Originating in Tiefenbach, Bavaria, Minitüb has established its competence over many years in more than 100 different countries all over the world. With several companies, highly-trained local representatives, and multilingual professionals handling exports, we keep in contact with the international AI industry. Innovative ideas, modern production techniques and a keen appreciation of product quality are the basic ingredients of our knowledge and your success.

We thank you for your interest and your confidence placed in us.

DR. CHRISTIAN SIMMET
MANAGING DIRECTOR

COLLECTION OF STALLION SEMEN

Hannover AV

Equine artificial vagina Hannover, complete with small valve (11222/0005), inner liner, rubber rings, leather handle

REF. : 11220/0145

Accessories

Inner liner (1) for Hannover AV, rubber, with roll-up ends, sterilizable

long version, 100 cm REF. : 11222/0002

short version, 70 cm REF. : 11222/0003

Disposable inner liner (2), width approx. 21 cm, roll with approx. 200 m, sensitive: smooth and very resistant material

REF. : 11222/0120

Warming bag (3) for collection glass, protects the semen from low temperature and UV radiation

REF. : 11225/0026

Rubber band (4) for equine AV Hannover

REF. : 11222/0001

Small valve (5) for equine AV Hannover

REF. : 11222/0005

Disposable inner liner, fits Hannover/Colorado vagina with built-in filter, 10/package (not shown)

REF. : 11232/0420

Semen collection bottle (6),

200 ml, plastic, 100/package

REF. : 11231/0200

Coupling nut for 200 ml semen bottle,

100/package (not shown)

REF. : 11231/0301



Missouri AV

Equine artificial vagina Missouri, double latex liner with valve and leather casing, adapter and collection bottle, length: approx. 55 cm

REF. : 11245/0000

Accessories

Disposable inner liner „AV-Liner“

With built-in filter and collection pouch, for Missouri (no collection bottle needed), 10/package

REF. : 11245/0420

Without filter, for Missouri, approx. 21 x 90cm, 25/package

REF. : 11245/0450

Without filter, fits Hannover, Colorado and Missouri, 10/package

REF. : 11232/0440



COLLECTION OF STALLION SEMEN

Colorado State University AV

Equine artificial vagina Colorado SU, complete with 2 inner rubber liners (tubular and conical), 10 rubber bands, 2 clamps, 25 disposable inner liners, 25 semen bottles, 25 coupling nuts, 25 nylon filters and warming bag

REF. : 11230/0000

Accessories

Disposable inner liner (1), plastic, width 30 cm, roll with approx. 200 m, sensitive: smooth and very resistant material

REF. : 11232/0030

Disposable inner liner Colorado (2), AV-shaped, 25/package, blue

REF. : 11232/0101

Semen collection bottle Colorado (3), 200 ml, plastic, 100/package

REF. : 11231/0200

Coupling nut for 200 ml semen bottle, 100/package (not shown)

REF. : 11231/0301

Semen filter Colorado (4), nylon, fits Colorado collection bottle, 25/package

REF. : 11231/0400

Disposable inner liner Colorado (8), 25/package REF. : 11232/0110

Accessories for semen collection

Vaseline, 1000 g REF. : 11905/0100

Lubricating jelly Bengen, 1 l, non spermicidal, water soluble REF. : 11906/1000

Semen filter, non woven, 150 x 60 mm, 100/package REF. : 11245/3100

Equine semen filter pouch, non woven, 10/package REF. : 11260/1000

Thermometer for artificial vagina,

Bimetal, nonbreakable, 0 - 100°C REF. : 11027/0000

Mercury, 0-100°C, graduation 0.1°C REF. : 11027/0100

Mercury, 0-200°C, graduation 0.1°C REF. : 11027/0200

Semen collection glove, disposable, non spermicidal, different sizes, 100/box

REF. : 11128/0055



Warming bag (5/6),

Small, for 200 ml collection bottle REF. : 11225/0026

Large, blue REF. : 11231/0185

Rubber inner liner for Colorado SU vagina (7), tapered end for connection to the bottle

Flared REF. : 11231/0102

Straight REF. : 11231/0101

Round REF. : 11231/0201

Rubber inner liner tubular,

flared ends (not shown) REF. : 11231/0103



COLLECTION OF STALLION SEMEN

Hannover Phantom for Stallions

Adjustable in height and inclination, covered with reinforced synthetic material coating, well padded, contoured body style, includes bite belt. Size of the phantom fits for all breeds:

Body: 200 x 60 x 55 cm (L x W x H)

Height of the dummy: 1.30 m to approx. 1.70 m

REF. : 11200/0000

Hannover phantom with hydraulic height adjustment of both legs. Hydraulic height adjustment ensures low fatigue operation. Both feet can be lifted or lowered about 40 cm either individually or together by means of a hand pump

REF. : 11200/1000

Accessories

Cover for phantom, synthetic material, collection side closed, with belts for attachment

REF. : 11200/2600

Leather blanket for phantom for stallions, collection side closed, with belts for attachment

REF. : 11200/2500

Bite belt

REF. : 11200/2100

Stretch foil for protection of phantom, length 300 m

REF. : 32000/0010



Lubricant miniLube™

Non spermicidal lubricant, water soluble.

Technical features

- Iso-osmotic and sperm friendly, supports the sperm cell viability
- Batches are tested for sperm compatibility
- Ideal viscosity
- Produced by Minitube in a Hepa-filtered dedicated clean room

Tube with 90 ml, resealable REF. : 17116/7000

Gallon 3.8 l without dispenser REF. : 17116/7010

Dispenser for 3.8 l gallon REF. : 17116/7011



MICROSCOPY AND VOLUME MEASUREMENT

Phase Contrast Microscope CX 31

Technical features

- Infinity optic system: sharp images over the complete field
- Phase achromatic optics with universal condenser
- Binocular
- Heated original microscope stage with temperature control unit HT200 with additional warming plate and two digital temperature displays
- Temperature freely selectable
- Ergonomic design
- Phase achromatic objectives
- 6 V / 30 W halogen light

with objectives 10x, 20x, 40x, 100x REF. : [12004/0331](#)

with phototube (trinocular),
with objectives 10x, 20x, 40x REF. : [12004/0631](#)



Phase Contrast Microscope MBL 2000

Functional microscope for semen analysis with phase achromatic objectives 10x, 40x, 100x, heating system with temperature control unit HT50 with digital temperature display and freely selectable temperature adjustment.

Binocular REF. : [12010/2000](#)

With ocular video camera and monitor REF. : [12010/2100](#)



Semen Dyes

Spermac, semen dye for morphological evaluation,
4 x 50 ml REF. : [15405/0000](#)

Farely stain, for morphological evaluation, consisting of 3 components,
250 ml each REF. : [15405/0026](#)

Eosin G, solution for supravital staining,
50 ml REF. : [15405/0025](#)

Nigrosin, solution for supravital staining,
50 ml REF. : [15405/0029](#)



Laboratory Scale

Precision scale for the determination of the ejaculate volume, weighing range max. 2000 g, resolution 0.1 g, weighing pan 130 x 130 mm

REF. : [14295/0444](#)



Sperm Vision® Therio

Computerized semen analysis ideal for equine clinics, practitioners and semen analysis labs. Concentration, motility and morphology of sperm cells are accurately assessed, making Sperm Vision® Therio an essential tool for everything from donor evaluation to semen processing

Your benefits

- Designed specifically for the needs of Veterinarian clinics and labs
- Advanced customizable record keeping capabilities for client, donor, referring veterinarians and associated data
- Accurate concentration, motility and morphology analysis
- Customizable reports, offer clear and concise sample analysis, featuring donor data, charts, graphs and video images
- Various modules available to satisfy individual needs



Technical features

- Sperm Vision® Therio Software
- Software, high speed camera & video card
- Computer & LCD monitor
- Optional Comparative Analysis Report Module
- Optional Cryogenic Tank Management Module
- Optional Viability Analysis Module
- Remote diagnostic and service capabilities
- Microscope, quoted separately

Accessories

Zeiss Axioscope A1 for Sperm Vision®

Phase contrast microscope with ergonomic support and base plate, excellent image quality. Can be retrofit with a ScanStage or with fluorescence equipment.

REF. : 12008/0045

CASA Objective

20x negative phase contrast

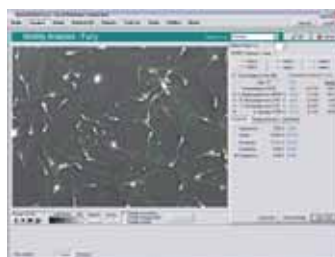
REF. : 12006/0231

Camera adapter, 0.63x

REF. : 12108/0004

Sperm Vision® Therio

REF. : 12520/6000



PHOTOMETRY

Photometer SDM6



Your benefits

- Touch screen operated, large display
- Programs for the determination of sperm concentration of stallion, bull, boar, ram and buck semen
- Automatic calculation of extender volume and number of doses
- Display of semen concentration in 10^9 sperm cells/ml
- Optional: integrated printer for printout of production data of ejaculate
- Serial and parallel interfaces for data transfer

Technical features

- Spectral range: 340 - 578 nm
- Filter: 546 nm
- Halogen lamp
- Use of 10 mm macro cuvettes
- Analysis time: 2 seconds/sample
- Power supply: 230 V / 50 Hz or 110 V/60 Hz

Photometer SDM6, for the determination of semen concentration and for dose calculation, with integrated printer

REF. : 12300/0006

Photometer SDM6, without printer

REF. : 12300/0008

Accessories

Paper for printer

REF. : 12300/0311

Macro cuvette, 4 ml, 100/package

REF. : 12301/0003

NaCl solution, 0.9 %, 1 l

REF. : 12301/4667

Dispenser 0.5 - 5 ml for NaCl solution

REF. : 12428/1815

Varipette 10 - 100 μ l, with digital display

REF. : 12425/4810

Pipette tip yellow, 1000/package

REF. : 12425/9409

Automatic diluter-dispenser for precise sample preparation and concentration measurement. Use of disposable syringes for semen sampling. Power supply: 110 - 220 V

REF. : 12421/0503



Photometer SDM 1



The SDM 1 is a compact, highly accurate photometer developed for measuring sperm cell concentrations. It can be calibrated for equine, porcine, bovine, canine and small ruminant species. Cleaning is simple, maintenance is minimal. The semen concentration is displayed in million sperm cells/ml.

- Calibration for stallion semen
- No dilution of semen samples necessary
- LED light source provides stable output
- Cuvette is securely fixed in the correct measuring position
- Calibration is performed automatically with each sample measurement

Photometer SDM 1

REF. : 12300/0101

Accessory

Microcuvette for SDM 1, 100/box

REF. : 12300/1111

MINITUBE STALLION SEMEN EXTENDERS

CHILLED SEMEN PROCESSING

Gent Extenders

For fresh semen, with egg yolk and antibiotics, ready to use

45 ml	REF. : 13571/0045
100 ml	REF. : 13571/0100

EquiPro® ApX²

Powder for 100 ml, with Ergothioneine for superior fertility protection

EquiPro® ApX ² without Antibiotics, 9.2 g	REF. : 13570/0300
EquiPro® ApX ² with Gentamicin, 9.2 g	REF. : 13570/0310
EquiPro® ApX ² with Amikacin/Penicillin, 9.2 g	REF. : 13570/0320
EquiPro® ApX ² with Ticarcillin, 9.2 g	REF. : 13570/0330

AndroMed® -E

Liquid semen extender without animal proteins. Contains egg yolk substitutes and antibiotics. 25 ml concentrate for 125 ml diluent

REF. : 13573/0020

EquiPro®

Contains specific, processed caseinates.

Powder for 1 l, with antibiotics	REF. : 13570/0202
Powder for 1 l, without antibiotics	REF. : 13570/0201
Powder for 100 ml, with antibiotics	REF. : 13570/0210
Powder for 100 ml, without antibiotics	REF. : 13570/0240
Liquid, 100 ml, with antibiotics	REF. : 13570/0301

Centrifugation Extender

Also suitable for preparation of freezing extender, powder for 1 l

REF. : 13565/0001

Cushion Fluid

CushionFluid is a special medium used for gentle centrifugation of stallion spermatozoa. Because of its special mixture CushionFluid assures a considerably higher yield of sperm cells whereas the standard centrifugation method leads to a loss of about 10% and more of sperm cells. CushionFluid, 100 ml

REF. : 13580/0001

Water for Semen Extenders

Bidistilled, sterilised, pyrogen-free

1 l	REF. : 13570/1000
100 ml	REF. : 13570/1100

EquiPro® Reinforcer

Extender for reinforced breeding, 15 ml

REF. : 13570/0600

Minitube extenders are produced according to highest quality standards. All components are from constantly excellent, controlled sources. Each extender batch is tested for its chemical, microbiological, physical and biological properties. Certificates are available upon request



MINITÜB STALLION SEMEN EXTENDERS

CRYOPRESERVATION OF SEMEN

EquiPro® CryoGuard™

Media for the cryopreservation of stallion semen.

Your Benefits

- Ready to use and easy to handle
- Not necessary to add pure water
- Can be transported at ambient temperatures up to +25°C
- Available as 1-Step (filling at ambient temperature) or 2-Step type (filling at 5°C)

EquiPro® CryoGuard™ 1-Step with egg-yolk

2 liquid components with 95 ml medium and 5ml egg-yolk-glycerine mixture

REF. : 13570/0410

EquiPro® CryoGuard™ 1-Step without egg-yolk

1 liquid component with glycerine – addition of 2 ml freshly filtered egg yolk by the user

REF. : 13570/0420

EquiPro® CryoGuard™ 2- Step with egg-yolk

consists of 3 fractions:

1. Fraction A: EquiPro™ for centrifugation and bloating of pellets
2. Fraction B: EquiPro® CryoGuard™: liquid medium, to which the egg yolk-glycerine component is added before using
3. Fraction C: Egg yolk-glycerine component

REF. : 13570/0510

EquiPro® CryoGuard™ 2- Step without egg-yolk

consists of 2 fractions:

1. Fraction A: EquiPro® for centrifugation and bloating
2. Fraction B: EquiPro® CryoGuard™: the operator adds 4 ml of fresh egg-yolk before using

REF. : 13570/0520

Gent Extender

with egg yolk, glycerine and antibiotics, ready to use

45 ml

REF. : 13571/1045



PROCESSING OF STALLION SEMEN

Water Bath

Electronic temperature control, stainless steel, with grid and lid.

7 l, inner dimensions:

240 x 210 x 140 mm (L x W x H)

REF. : [14078/0001](#)

10 l, inner dimensions:

350 x 210 x 140 mm (L x W x H)

REF. : [14079/0001](#)

Power supply: 115 V/ 60 Hz or 230 V/ 50 Hz.



Rolling Mixer RM5

For gentle, constant homogenization of semen doses in tubes. Appropriate for use inside the refrigerator.

Dimensions: 430 x 180 mm (L x W)

REF. : [14340/0348](#)



Centrifuge

With swing-out rotor for 4 x 100 ml, complete with buckets and 100 ml glass vials. Maximum rotations: 3900 min⁻¹ per minute, LCD-display, speed displayed in rpm and g (gravitational force or rcf)

REF. : [14602/0500](#)

Also available for 50 ml glass vials or Falcon tubes REF. : [14602/0575](#)



Shaker Vibramax

Platform with 2 fixation devices and non-slip rubber pad. Includes timer.

Shaking frequency: 150 – 1350 cycles / min

Area of platform: 220 x 220 mm

REF. : [14703/0304](#)



PROCESSING OF STALLION SEMEN

Glass Ware

Measuring pipettes, graduated cylinders, beakers, dispensers, test tubes, Erlenmeyer flasks etc.

Please ask for a detailed list of our glass ware



Plastic vials for Storage of Semen or Dilutor

Semen vial, with graduation and screw cap.

30 ml	REF. : 17231/0030
50 ml	REF. : 17220/0017
13 ml, with cap, sterile	REF. : 17230/6001

Semen vial, 13 ml, round bottom, caps see below REF. : 17230/6000

Semen vial, 12 ml, conical bottom, caps see below REF. : 17230/7000



	Screw cap for semen vial, 13 ml	Push cap for semen vial, 12 ml
red	REF. : 17230/6055	REF. : 17230/7103
blue	REF. : 17230/6056	
green	REF. : 17230/6058	REF. : 17230/7105
white	REF. : 17230/6054	REF. : 17230/7101
violet	REF. : 17230/6057	REF. : 17230/7108
yellow	REF. : 17230/6059	REF. : 17230/7106
black		REF. : 17230/7102

Rack for 20 semen tubes 12/13 ml	REF. : 17230/9384
Rack for 20 semen tubes 30 ml	REF. : 17231/9384
Rack for 24 test tubes of 18mm, with numbers	REF. : 14076/0005

Semen Bags for Storage

Sterile semen bag with incorporated wire and write-on tag, 100/package

Volume 60 ml	REF. : 17224/0250
Volume 120 ml	REF. : 17224/0500
Volume 350 ml	REF. : 17224/1000



TRANSPORT OF CHILLED SEMEN

Equitainer®

Your benefits

- A world-wide proven system for cooling, storage and transport of fresh stallion semen
- The warm semen is automatically and gently cooled down to the ideal storage temperature within 6 to 10 hours
- The desired temperature is reliably maintained for about 70 hours
- Very high level of protection against potential x-ray induced damage of the enclosed semen sample

Equitainer® cup style

Complete with 1 cup-style isothermalizer, 1 sterilised plastic cup with lid, 1 ballast bag, and 2 coolant cans

REF. : 17220/0010

Equitainer® tube style

Complete with 1 tube-style isothermalizer, to fit two 50 ml tubes, 6 x 50ml tubes, and 2 coolant cans

REF. : 17220/0015

Accessories

Coolant can (1) REF. : 17221/0120

Thermo bag (2) REF. : 17221/0130

Isothermalizer cup style (3), for 240 ml cup REF. : 17220/0011

Isothermalizer tube style (4),
for two 50 ml tubes REF. : 17220/0016

Inner plastic cup (5), 240 ml, graduated, with lid REF. : 17221/0240



Neopor Transport Box

Minitube transport box, made of highly insulating Neopor. Complete with 2 ice-packs, 2 syringes (20 ml) and outer shipping carton

REF. : 17229/0002



INSEMINATION OF MARES

Universal Pipettes

Your benefits

- Suitable for liquid semen and frozen-thawed semen in straws
- Smooth round tip for gentle introduction
- Flexible shaft facilitates handling
- Precision tooled tip with inner cone for 0,5 ml straws to allow direct position of semen into the uterus and to ensure 100% semen delivery
- The reload system: if used with the A. I. stylet for 0,5 ml straws, the same pipette can be reloaded with consecutive straws in situ
- Finger handle with adapter to fit syringe and macrotube straw

Length: 57 cm

5/package	REF. : 17209/0005
1/package, sterilized	REF. : 17209/0001

Deep IUI Universal Pipette with very flexible shaft for deep intrauterine insemination.

Length: 65 cm

5/package	REF. : 17209/1165
1/package, sterilized	REF. : 17209/1265

Length: 75 cm

5/package	REF. : 17209/1175
1/package, sterilized	REF. : 17209/1275



Deep IUI Pipette with Inner Catheter

For deep intrauterine insemination with small volumes of liquid semen, if straws can not be used. The pipette is provided with an inner catheter to reduce the volume of the channel where the semen has to pass through.

Length: 65 cm

5/package	REF. : 17207/1165
1/package, sterilized	REF. : 17207/1265

Length: 75 cm

5/package	REF. : 17207/1175
1/package, sterilized	REF. : 17207/1275



INSEMINATION OF MARES

Deep IUI Kit

Includes deep intrauterine universal pipette with inner catheter, 5 ml syringe, supersensitive glove, sterilised.

Length: 65 cm REF. : 17207/2065
Length: 75 cm REF. : 17207/2075



Stylet for Insemination of Frozen Semen

With Universal Pipette plus stylet, semen in 0.5 ml straws is directly placed into the uterus, ensuring 100 % semen delivery. The stylet is made of stainless steel and is provided with 2 knobs to pull out empty straws, thus the same pipette can be reloaded several times.

Stylet for pipettes

Flexible stylet for deep intrauterine or transcervical insemination with 0.5 ml straws, with 2 knobs for pulling out empty straws.

Length: 57 cm REF. : 17209/1057
Length: 65 cm REF. : 17209/1065
Length: 75 cm REF. : 17209/1075



Insemination Pipettes for Liquid Semen

Length: 60 cm, rounded tip, 25/bag, fits luer syringe REF. : 17209/2000

With tubing, 1/bag, sterilized REF. : 17209/2210

Hygienic Sheaths

Disposable sheath to protect ET or AI pipette during vaginal passage, length: 62,5 cm (70/roll)

REF. : 17209/5070



INSEMINATION OF MARES

Uterus Culture Swab

Consists of introduction pipette with pre-perforated cap for sampling without risk of contamination. Predetermined breaking point of the sample-protecting sheath. Includes two closing caps for transport of the swab to the lab. Swab may be inserted directly into AMIES transport medium to avoid dehydration of the sample. Individually packaged and gamma irradiated.

Swab with AMIES transport medium REF. : [17214/2951](#)

Swab without transport medium REF. : [17214/2950](#)



Cytology Brush

For picking up cells of the uterus of mares to perform cytology smears for immediate evaluation

REF. : [17214/2960](#)



Disposable Speculum for Mares

Made of cardboard, inside with reflecting aluminum coating, smooth front edge for gentle introduction, inner diameter: 3 cm, length: approx. 43 cm

REF. : [17210/0000](#)

LED-light, battery operated (up to 250 h), clip for fixing, length: 96 mm
REF. : [17210/0010](#)



Metal Case with lid and handles for sterilization and transport of speculum and cervical forceps, 560 x 230 x 120 mm (L x W x H)

REF. : [17215/0149](#)

Polansky speculum REF. : [17210/4200](#)

Cervical forceps according to Götze
with lamp, 54 cm REF. : [17212/0055](#)

without lamp REF. : [17212/0054](#)

Biopsy forceps, 66 cm length (not shown) REF. : [17214/5066](#)



INSEMINATION OF MARES

Thawing Devices

MT 30/54

- Electronic temperature control
- Central, built-in thawing chamber with lift
- Temperature setting: +38°C, also available with 35°C, 37°C and 50°C
- Accuracy: $\pm 0.2^{\circ}\text{C}$
- Power supply: 12 V DC (car battery)

REF. : [17044/0038](#)



CITO

- Rugged construction made of ABS plastic
- Hinged lid with cover seal
- Thawing chamber with lift
- Constant thawing rate of +38°C through thermostatic control
- LEDs for indicating the activation of heating cycle and temperature
- Accuracy: $\pm 0.2^{\circ}\text{C}$
- Power supply: 12 V DC (car battery)

REF. : [17040/3542](#)



Geysir 70

- Free temperature setting: up to 75°C
- 12 different time settings preprogrammed
- Straw is automatically thrown out after thawing

REF. : [17043/7000](#)



Accessories

Transformer for thawing device MT and CITO,
for 12 V/ 220 V

REF. : [17165/1395](#)

Transformer for thawing device Geysir 70

REF. : [17165/1397](#)

Insemination Gloves

Shoulder length,

5 fingers, 100/package, sensitive, blue

REF. : [17080/0005](#)

Sensitive,

transparent, 50/box, neck fixation

REF. : [17080/0150](#)

Supersensitive,

5 fingers, transparent, 100/package

REF. : [17080/0050](#)



ENDOSCOPIC INSEMINATION OF MARES

The Minitube Equine AI Endoscope

Our endoscope is available in different lengths. We recommend a length between 1.4 m and 2.0 m.

Sterility proof!

All parts of the endoscope which can come in contact with the genital tract of the mare are exchangeable. Approximately 15 minutes are necessary in order to make the endoscope a sterile instrument for the next insemination.

The Minitube Endoscope for insemination is a video endoscope with high resolution CCD-video sensor.

REF. : [23700/1200](#)



Why Endoscopic Insemination?

A successful fertilization, especially when working with small amounts of semen, can be supported by the endoscopic method: With the assistance of the endoscope, small volumes can be deposited under visual control at the utero-tubal junction. The endoscope allows a great reduction of sperm cells in the dose, without endangering the fertility success. This is of special interest for highly demanded stallions or for stallions with limited sperm availability.

EndoCenter for Equine AI Endoscope

High resolution TFT monitor, air-/water-pump, stand, 150 W Xenonlight source

REF. : [23700/1240](#)

EndoCenter with transport case

REF. : [23700/1250](#)

Consumables

Hygienic cover set,
for endoscope, single packed, sterilised

REF. : [23700/1201](#)

Long semen straw, with cotton plug, approx. 200 cm long, fits in the working channel of the endoscope, sterilised

Diameter 3 mm

REF. : [23700/1204](#)

Inner tubing, to transfer chilled semen, diameter 3 mm, length: approx. 200 cm, sterilised, with adapter for syringe

REF. : [23700/1208](#)

Stylet, for emptying content of straws
into long semen straw

REF. : [17207/0010](#)



STERILISATION

Sterilizer STERIVAR

Low pressure sterilizer, specially designed for artificial vaginas and accessories. Made of stainless steel, double wall with insulation. With pressure safety valve, timer, water drain, protection against overheating and insert grid.

Technical features

- Temperature range: up to +100°C
- Pressure: max. 0.02 bar
- Inside dimensions: Ø approx. 750 x 400 mm
- Power supply: 230 V / 50 Hz
- Power consumption: 3500 W

REF. : [11050/0015](#)



Accessory

Roller base for STERIVAR

REF. : [11051/0000](#)



Warming Cabinet/Sterilizer

For warming and sterilization.

Volume 53 l, temperature range: +30°C to +220°C. Inner dimensions: 400 x 400 x 330 cm (L x W x H), 230 V / 50 Hz, weight: 35 kg

REF. : [14127/0053](#)

other sizes available

32 l REF. : [14127/0032](#)

108 l REF. : [14127/0108](#)

256 l REF. : [14127/0256](#)



AUTOMATIC FILLING & SEALING OF STRAWS

MPP Uno

Automatic filling and sealing machine for 0.25 and 0.5 ml straws

Your benefits

- The MPP Uno seals and fills 1 straw per cycle. Therefore the machine is ideal for handling small volumes of valuable ejaculates. The sealing is performed by ultrasound.
- Conversion between 0.25 ml straws and 0.5 ml straws without exchanging any parts within only a few minutes. The exchangeable hoppers hold either 2200 straws of 0.25 ml or about 1300 straws of 0.5 ml.
- The very compact device which requires minor space. The vacuum pump and the pressure controller are integrated in the device. The ultrasound generator is integrated in an external casing that can be mounted at a distance of up to 2.5 m. The ON/OFF switch is directly placed on the machine.
- The filling and sealing area is completely closed: best hygienic and safety conditions are therefore fully guaranteed. Optimal control by the user: the filling process is performed right in front of the user, who can easily observe the procedure.

MPP Uno, complete REF. : 13017/0000

Technical features

- Capacity: approx. 4 000 straws/hour
- No wearing parts. Very fast and easy cleaning
- Machine dimensions: 370 x 460 x 320 mm (L x W x H)
+ ultrasound generator
- Power supply: 110 V / 60 Hz or 230 V / 50 Hz

Accessories

Exchangeable straw hopper	REF. : 13017/0005
Filling nozzle 0.25 ml	REF. : 13017/0012
Suction nozzle 0.25 ml	REF. : 13017/0022
Filling nozzle 0.5 ml	REF. : 13017/0017
Suction nozzle 0.5 ml	REF. : 13017/0027
Washer, 5000/bag	REF. : 13021/3001
Filling tubing, 100/bag	REF. : 13021/3800
Semen cone, 200 ml, 100/bag	REF. : 13018/0100



PRINTING MACHINE FOR SEMEN STRAWS

EasyCoder 2.0

The innovation in semen laboratories: printing of straws without ink, now with new software 2.0

Your benefits

- Unmatched neat and clear printing on 0.5 and 0.25 ml straws
- Up to 3 lines with a total of about 200 characters, even on Ministraws
- Printing of barcode signs, logos and specific characters
- Immediately non-abrasive print
- Control via PC by a clear and user-friendly Minitube software
- Sequential numbers can be printed on straws
- Adjustable character fonts and graduations from micro to macro
- Freely eligible number of lines and of printing positions
- Clean and odourless working without ink and without solvents
- Easy handling, little maintenance required
- Easy and quick conversion between different straw sizes

EasyCoder printer 2.0, complete REF. : [13038/0000](#)

EasyCoder software upgrade to version 2.0 REF. : [18800/0001](#)



Technical features

- Thermal transfer printer with automatic straw supply
- Output: 3 600 straws per hour
- Windows based Minitube software with data base for storing names and numbers
- Data transfer by serial port or USB adapter (included)
- Individual composition of printing lines possible, different configurations can be stored in memory
- Dimensions (l x w x h): 690 x 370 x 310 mm (PC not included)
- Power supply: 110-230 V AC, 50/60 Hz

Accessories

Color ribbon for straw printer EasyCoder

black	REF. : 13038/0010
gold	REF. : 13038/0012
red	REF. : 13038/0015
silver	REF. : 13038/0017

SEMI-AUTOMATIC STRAW PROCESSING

Semiautomatic Filling and Sealing System SFS 133

For 0.5 ml straws. The straws are filled and sealed 6 by 6. Safe and hygienic sealing system with beads. The air bubble is created automatically.

Output: approx. 2000/hour

REF. : [13133/0133](#)

Vacuum pump, with adjustable valve and manometer

REF. : [13133/0267](#)

Loading block, with rack and 10 magazines for 36 straws each

REF. : [13133/0005](#)

Accessories

Sealing beads, glass (various colours)

REF. : [13400/0xxx](#)

Sealing beads, metal

REF. : [13400/9900](#)

Semen cone, 200 ml, 100/bag

REF. : [13018/0100](#)

Support for semen cone, 200 ml, 100/bag

REF. : [5013018/0932](#)

Silicone Tubing, 3 x 1 mm, 100/bag

REF. : [13133/3500](#)



FREEZING OF STALLION SEMEN

IceCube

IceCube 14S, computer controlled freezer, with comfortable data input and automatic recording of the freezing curve.

Technical features

- Temperature range: +40 to -180°C
- Freezing rates: 0.01 to 60°C/min
- Heating rates: 0.01 to 15°C/min
- Display accuracy: 0.01°C
- Temperature measurement via 2 Pt-100 resistance thermometers
- Capacity: approx. 900 x 0.5 ml straws per freezing cycle

Software for freezing programming and control, unlimited storage of programs and processed files, color graphic display of all temperature curves, wide possibility of parameter settings.

Dimensions: 540 x 420 x 520 mm (L x W x H), weight: 29 kg.

IceCube 14S with 12" touch screen monitor and connector kit to be connected to computer and LN₂ pressure container

REF. : [16821/2000](#)

IceCube 14S without monitor, with connector kit to be connected to computer and LN₂ pressure container

REF. : [16821/1000](#)



Please ask for Embryo Freezing Equipment for the IceCube

Accessories

Rack for Icecube 14S (1), for 36 straws REF. : [16821/5036](#)

Loading Device REF. : [16821/5037](#)

Handling rack for Icecube 14S (2) REF. : [16821/5030](#)

Spacer for IceCube (not shown) REF. : [16821/5018](#)

Liquid Nitrogen pressure container for IceCube 14S, 60 l REF. : [16820/1900](#)

Roller base for LN₂ pressure container REF. : [16501/0204](#)

Larger alternative:

IceCube 14M

Capacity: approx. 2300 x 0.5 ml straws per freezing cycle

IceCube 14M without monitor REF. : [16820/6000](#)

IceCube 14M with touch monitor REF. : [16820/7000](#)



FREEZING OF STALLION SEMEN

Floating Freeze Rack

Your benefits

- Simple but effective standardisation of vapor freezing
- Automatic plunging of straws
- The distance between straws and liquid nitrogen level can be adjusted
- Fits macrotubes, 0.5 ml and 0.25 ml straws
- With high quality styrofoam chest and stainless steel inner box with working tray

Floating freeze rack includes styrofoam chest, stainless steel inserts and rack for 36 x 5 ml macrotubes

REF. : [15043/0038](#)

All components also available separately

Adapter for 72 2.5 ml macrotubes (6) REF. : [15043/0136](#)

Adapter for 100 0.5 ml straws (5) REF. : [15043/0236](#)

Adapter for 150 0.25 ml straws (4) REF. : [15043/0336](#)

Loading device

for 0.5 ml straws REF. : [15043/0436](#)

for 0.25 ml straws REF. : [15043/0536](#)

Floating freezing rack for 5.0 ml macrotubes (1) REF. : [15043/0037](#)

Stainless steel tank tray (2) REF. : [15043/2111](#)

Lifting Hooks (3) REF. : [15043/3117](#)

Stainless Steel Shelf for Goblets (8) REF. : [15043/2112](#)

Large Styrofoam chest (7) REF. : [15043/6614](#)

Small Styrofoam chest REF. : [15043/6615](#)



Freezing Unit

Robust vapor freezing system for straws 0.5 ml and 0.25 ml

- Adjustable distance between straws and liquid nitrogen
- Compact and easy to handle

For 20 straws REF. : [15043/0636](#)

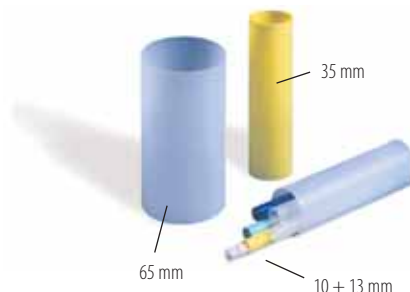
For 100 straws REF. : [15043/0736](#)

FREEZING OF STALLION SEMEN

Goblets

Plastic containers for the storage of straws, in different sizes and colors:

Diameter	Color	REF.
10 mm	white	: 16912/0133
13 mm	white	: 16913/0133
13 mm	blue	: 16913/1133
13 mm	red	: 16913/3133
13 mm	pistachio	: 16913/4133
13 mm	yellow	: 16913/5133
35 mm	white	: 16935/0135
65 mm	white	: 16965/0135



Goblet hexagonal for 36 of the 0.5 ml or 80 of the 0.25 ml straws

white	REF.	: 16970/0036
green	REF.	: 16970/0136



0.25 ml and 0.5 ml Semen Straws

Available in many different colors.

Macrotubes

Volume: 4 ml, length: 240 mm	REF.	: 13441/0240
Volume: 5 ml, length: 280 mm	REF.	: 13441/0280

Sealing balls for macrotubes, metal or glass, in many different colors.

Straws and macrotubes can also be delivered preprinted.



FREEZING OF STALLION SEMEN

Cryogenic Containers for Storage

MVE storage container SC 20/20, 6 canisters, 279 x 38 mm, capacity: 20.5 l liquid nitrogen, approx. 1480 0.5 ml semen straws or 190 macrotubes, normal working-duration: 142 days, neck opening: 51 mm, total height: 652 mm, weight (full): 28.3 kg

REF. : 16520/2006

MVE storage container SC 33/26, 6 canisters, 279 x 38 mm, capacity: 33 l liquid nitrogen, approx. 1480 0.5 ml semen straws or 190 macrotubes, normal working- duration: 182 days, neck opening: 51 mm, total height: 657 mm, weight (full): 42.4 kg

REF. : 16533/2606

MVE storage container XC 43/28, 6 canisters, 279 x 56 mm, capacity: 42,2 l liquid nitrogen, approx. 3500 0.5 ml semen straws or 400 macrotubes, normal working-duration: 193 days, neck opening: 70 mm, total height: 670 mm, weight (full): 50.5 kg

REF. : 16543/2806



CryoCube™ Dry Shipper

ensures a safe shipment of temperature-sensitive semen doses. Reusable. Additional shipping carton recommended.

Static holding time: 5 days

Capacity: 182 x 0,25 /88 x 0.5 ml straws

1 canister 127 x 35 mm

Neck opening: 35 mm; Height: 305 mm; Diameter: 305 mm

REF. : 16505/0100



Vapor Shipper

SC 2/1, 1 canister, capacity: 1.5 l liquid nitrogen, approx. 80 x 0.5 ml semen straws, static holding time: 8 days, neck opening: 35 mm, total height: 343 mm, weight (full): 4 kg

REF. : 16502/2001

SC 4/2, 1 canister, capacity: 3.6 l liquid nitrogen, approx. 440 x 0.5 ml semen straws or 120 macrotubes, static holding time: 14 days, neck opening: 70 mm, total height: 468 mm, weight (full): 8.1 kg

REF. : 16504/2001

SC 4/3, 1 canister, capacity: 4.3 l liquid nitrogen, approx. 210 x 0.5 ml semen straws or 30 macrotubes, static holding time: 21 days, neck opening: 51 mm, total height: 492 mm, weight (full): 9.3 kg

REF. : 16504/3001

Protecting shipping box, for Vapor Shipper, made of plastic

REF. : 16504/3010



EQUINE EMBRYO TRANSFER

Embryo Flushing Catheters for Mares

Made of silicone, CH 32, length approx. 90 cm, autoclavable, 100 ml balloon, sterilised

REF. : [19009/0032](#)

Made of silicone, CH 36, length approx. 90 cm, autoclavable, 100 ml balloon, sterilised

REF. : [19009/0036](#)

Made of plastic, CH 28, length 1200 mm, 100 ml balloon, sterilised

REF. : [19009/0028](#)

Made of plastic, CH 38, length 1500 mm, 100 ml balloon, sterilised

REF. : [19009/0038](#)

Flushing Tubing

Disposable Y-junction tubing with clamps. To be used in combination with any catheter and inline filter. Sterilised (gamma irradiated), 1/bag. Tubing made of very smooth, flexible material. End for filter connection without extra adapter.

High flow Y-junctions

with screw connector for EquiPro flushing media REF. : [19011/0010](#)

with spike connector REF. : [19982/0202](#)

Standard Y-junction:

Luer end REF. : [19011/0000](#)

Foley end REF. : [19011/0001](#)

Luer adapter for CH 28 – 38 catheters and for foley catheters

REF. : [19009/1238](#)

Miniflush™

The patented Minitube embryo recovery system, consisting of embryo filter and search dish. No transfer from filter cup to Petri dish necessary. Mesh size/open area 73 µ / 40 %, sterilised (gamma irradiated), disposable

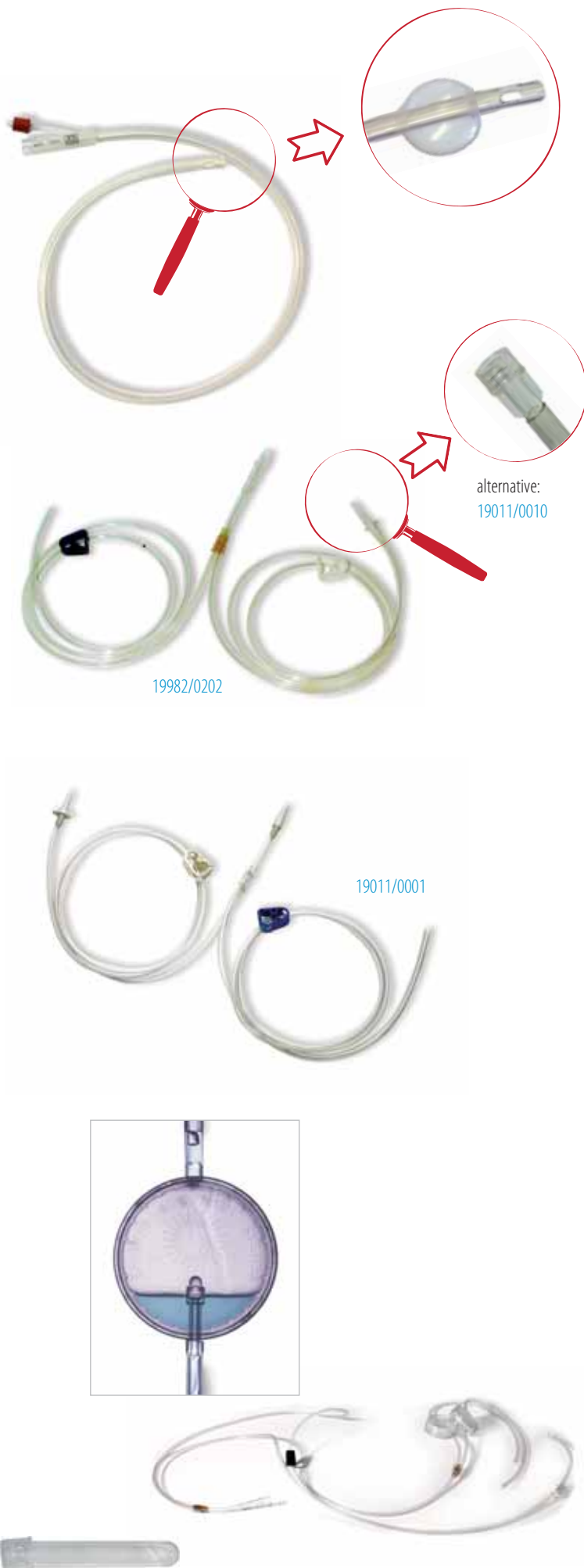
Miniflush Filter System REF. : [19010/1101](#)

Miniflush High Flow Kit contains 2 Equine Miniflush filters and a large volumine Y-Tubing to connect to flushing catheter

REF. : [19010/1102](#)

Embryo transport vial, with snap cap, sterilised, 5 ml, single packed

REF. : [19180/5006](#)



EQUINE EMBRYO TRANSFER

Media for Flushing and Holding

EquiPro™ recovery medium with BSA and antibiotics, 3-way port configuration, 2 l bag

REF. : 19982/2102

EquiPro™ Holding Medium

Zwitterion-buffered solution containing D-glucose, Na-pyruvate, 0.4 % BSA, amino acids, Kanamycin and Gentamicin

3-tube pack, 10 ml/tube

REF. : 19982/2250

Especially
formulated for
horses!



Vitrification

EquiPro VitKit, contains all equipment for vitrification of 4 embryos

REF. : 19500/1200

Handling of Embryos

Micropipettor, for handling of embryos. Easy and precise pipetting by handling wheel, for all sizes of capillary tubes up to 1 ml

Type A REF. : 19022/0000

Type B REF. : 19022/0002

Glass capillary tube, 250/package

10 µl REF. : 19022/0010

20 µl REF. : 19022/0020

50 µl REF. : 19022/0050

Steripette, for embryo handling, 55 ml length, sterilised, 50/package REF. : 19025/0055

Disposable syringe 1 ml, luer end, sterilised, for embryo handling REF. : 19025/0000

Embryo culture dish, with lid, sterilised, 5 wells, rounded well edges, shallow wells for easy handling, 4/bag (not shown)

REF. : 19021/0001



EQUINE EMBRYO TRANSFER

Stereo Microscope

Magnification 10x to 70x, eye-pieces 10x,
LED light source, light-/dark- field mirror **REF. : 12014/0000**

Accessories

Heating stage for stereo microscope,
180 x 180 mm **REF. : 12055/0003**

Control unit HT 50, for heating stage,
adjustable temperature, digital display **REF. : 12055/0050**



Embryo Transfer with 0.5 ml Straws

Sheath for equine ET, front end opening,
individually packaged, 10/package, sterilised **REF. : 19290/1050**

Sheath for equine ET, side openings,
individually packaged, 10/package, sterilised **REF. : 19290/1060**

Finger support and ring, for use with sheath
for equine ET and AI stylet 17209/1065 **REF. : 19290/1048**

Equine ET pipette, small metal head, flexible, 1/package, sterilised, use with
AI stylet 17209/1065

with side openings **REF. : 19290/1065**

Inner catheter for equine ET pipette, to flush embryo into the uterus with
approx. 2 ml volume, no need to load it into a straw (not shown)

REF. : 19290/1066



Stainless Steel ET Instrument

Sterilisable transfer instrument for 0.5 ml straws,
1 side outlet, length 55 cm, screw-off tip **REF. : 19290/0000**



EQUINE EMBRYO TRANSFER

Embryo Transfer with 0.25 ml Straws

Deep intrauterine ET / AI set,
with finger support, stylet, fixation rings **REF. : 17015/0100**

Sheath for equine ET / AI, 0.25 ml straws, side opening, for usage with stylet
17015/0100, sterile, individually packaged, 10/bag **REF. : 17015/0660**



Straws

0.5 ml straw, clear, gamma irradiated

with sealing ball, 1/package **REF. : 19043/0001**
with sealing ball, 10/package **REF. : 19043/0010**
without sealing ball, 10/package **REF. : 19043/1010**
length 90 mm, 10/package **REF. : 19044/9110**

0.25 ml straw, clear, gamma irradiated

with ID rod seal in many bright colors, 10/package **REF. : 19040/0010**
with sealing ball, 10/package **REF. : 19041/0010**
without sealing ball, 10/package **REF. : 19042/0010**



Hygienic Sheaths

Disposable sheath to protect ET or AI pipette during uterine passage,
length: 62,5 cm (70/roll)

REF. : 17209/5070



You are interested in freezing of embryos, ovum pick-up, micro-manipulation and ICSI? Please ask our specialists.

MARE AND FOAL CARE

Colostrum Refractometer

For estimation of the amount of immunoglobulin in colostrum. To ensure sufficient supply for the new born foal. Useful to check if the mare has run milk prior to foaling or to control quality of colostrum that will be frozen for emergency use.

Your benefits

- Only one drop of colostrum is required for testing
- Fits in a pocket (55 x 80 x 205 mm; L x W x H)
- Modest weight: 180 g
- No batteries, no consumables necessary

REF. : [24400/0150](#)



Resuscitation-Kit for Foals

Replaces mouth-to-mouth resuscitation and therefore prevents from risk of contamination. Linear pump action ensures effective repeatable tidal volume delivery irrespective of user's hand size.

Your benefits

- Easy to handle
- Compact and lightweight
- mMask and endotracheal tube compatible

Components of the kit

- Pump unit for foal resuscitator
- Resuscitation mask
- Aspiration mask

REF. : [23220/0000](#)

Accessory

Supplemental O₂-mask for connection to Oxygen tanks for additional supply of Oxygen

REF. : [23220/0004](#)





Minitüb is an ISO 9001:2008 certified company.

