



Ovum-Pick-Up (OPU)



The basics of OPU

OPU stands for Ovum-Pick-Up and refers to the removal of egg cells (oocytes) from the follicles in the ovaries of a cow. This procedure is often used in animal breeding to obtain genetically valuable oocytes for the in vitro production of embryos and embryo transfer. One advantage of OPU is that more offspring are produced in less time than with natural insemination, which increases productivity.

Aspiration pump

The aspiration pump is designed for bovine oocyte aspiration under optimal temperature conditions. LC displays and digital controllers allow for easy adjustment and control of aspiration vacuum and warming block temperature.

The following steps are performed during an Ovum-Pick-Up:

- The eggs are aspirated from the follicles in the cow's ovary (the animal is locally anesthetized for the procedure)
- The extracted oocytes are collected in a pre-warmed OPU medium
- The oocytes are taken to an IVF laboratory for further processing

Aspiration pump in durable casing	
230 V	23362/0000
115 V	23362/0001



★ Product features

- With media warming block
- Operation via foot pedal
- Extremely quick transmission of the vacuum to the needle
- Aspiration vacuum adjustable up to -400 mmHg
- The temperature in the heating block is adjustable and is precisely maintained during the procedure

Operating voltage	220-240 V~, 50-60 Hz (Ref. 23362/0000) 115 V~, 60 Hz (Ref. 23362/0001)
Maximum power consumption	approx. 250 VA
Ambient temperature	+5°C to +45°C
Ambient humidity	10-85% relative humidity, non-condensing
Dimension (W x H x D)	420 x 350 x 220 mm
Weight	approx. 12 kg



(≡ Scope of delivery

- Aspiration pump
- 1 x 500 ml narrow-necked bottle with screw cap
- 2 x Silicone stopper for 50 ml tube and 500 ml bottle
- 6 x 50 ml collection tube
- 1 x Silicone tubing with 1 Luer Lock
- 1 x Silicone tubing with 2 Luer Lock male
- 2 x Hydrophobic filters



(↗ Accessories

Silicone stopper assembly for 50 ml tubes, 1/package [1]	23360/1100
Collection tube, 50 ml [2]	17220/0017
Silicone tubing, 1 Luer Lock male [3]	23362/1002
Silicone tubing, 2 Luer Lock male [4]	23362/1003
Narrow-necked bottle, 500 ml [5]	5023362/0500



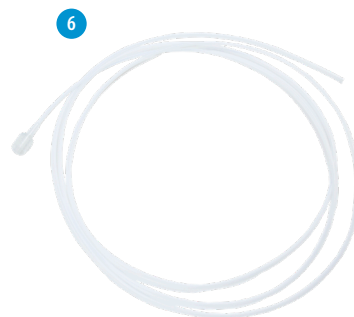
HOW TO USE
the aspiration pump for Bovine OPU



■ Tubing set

- Tube made of solid material
- COCs (COC = Cumulus Oocyte Complex) will not stick to the walls
- With Luer Lock fitting for a leak-tight connection to the stopper assembly
- Sterilized and individually packaged

Tubing set [6]	23360/1000
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■ Ultrasound probe holder

- Slim design allows oocyte aspiration in young animals (especially when used with a small probe)
- Precise needle control due to optimized needle outlet for recommended needles (23360/1200 and 23360/1250)
- No risk of needle detachment
- Material warms up very quickly to body temperature
- Very light-weight and smooth probe holder for easy handling
- Needle unit and sturdy carrying case included

Ultrasound probe holder, suitable for the following probes*

GE	23400/0120
SonoSite	23400/0040
Aloka	23360/0600
BCF	23400/0115
ECM	23400/0413

**Upon request, we offer the device also adapted to other probes.*

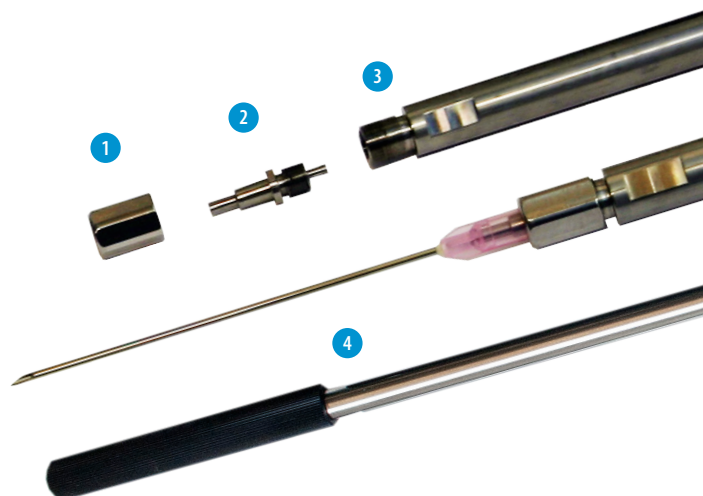
(↔ Accessories

Cover for probe holder, disposable, 144/bag	23360/1260
ReproJelly, non-spermicidal lubricant, 100 ml	11907/0100



Needle unit

- Clamping nut for the needle [1] : secures the needle in position with no dead space between needle and adapter
- Needle adapter [2] : connects needle and tube
- Stainless steel connection tube [3]
- Rounded handle [4] : allows variable positioning of the beveled needle tip





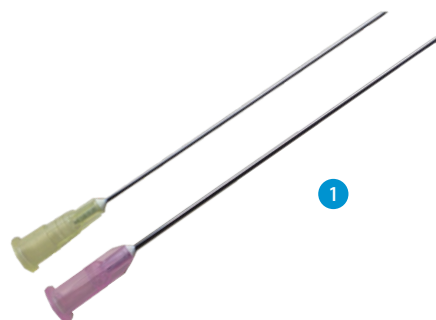
Disposable oocyte aspiration needle

- Easy and inexpensive to replace
- New sterile needle for every OPU session
⇒ high hygienic standard
- Ideal length for use in the probe carrier

Disposable oocyte aspiration needle, 100/pack [1]

for cows (1.2 x 75 mm / 18G), [23360/1200](#)
standard bevel

for heifers (0.9 x 70 mm / 20G), [23360/1250](#)
standard bevel



BoviPlus OPU recovery medium

Complete, ready-to-use solution containing BSA and heparin to prevent blood coagulation during the OPU procedure.

BoviPlus OPU recovery medium, 500 ml [2] [19982/1281](#)



BoviPlus washing medium

Ready-to-use medium with BSA for washing of OPU or abattoir derived bovine oocytes after collection.

BoviPlus Oocyte washing medium, 500 ml [3] [19982/1200](#)

