

Price List 2023



BIOLOGICAL LABORATORY EQUIPMENT
MAINTENANCE AND SERVICE LTD.

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“Miner’s Lamp” Frame

FHS/T01



MG - 1.8; MG - 2.3; MG - 2.7

The magnifier lenses are compatible with both the FHS/T00 goggles and the FHS/T01 miner’s lamp, providing 1.8x; 2.3x and 2.7x magnification.

The new emission filter is made of a single, big-surface piece. It is rectangular, which results a clearer field of vision.

This device works as a “miner’s lamp” providing maximum freedom to move around during fluorescent protein visualization. With the modular design, you can build the goggles according to your needs.

The light sources and emission filters are available for the typical FPs: ECFP, EGFP, EYFP, RFP and OFP.

The light sources and emission filters are interchangeable, so that the same goggles can be used with different kinds of FPs.

The MG - 1.8, MG - 2.3 and MG - 2.7 magnifier lenses can be attached to the emission filters. The “Miner’s Lamp” operates with four AA size alkaline batteries and the power consumption is so low that under normal usage the batteries will last several months.

The “Miner’s Lamp” Frame, the light sources and the emission filters are sold as separate units.

Light Source Model Number	Excitation Wavelength	Emission for Fluorescent Proteins
FS/ULS-02RB	440-460 nm	Cyan
FS/ULS-02B2	460-495 nm	Green & Yellow
FS/ULS-02G2	525-555 nm	Red
FS/ULS-02OR	567-588 nm	OrangeRed

Emission Filter Model Number	Fluorescent Proteins	Open (Wavelength nm)
FS/TEF-1C2	Cyan	480-505 nm
FS/TEF-2G2	Green	500-515 nm
FS/TEF-3GY1	Green & Yellow	500-650 nm
FS/TEF-3GY2	Green & Yellow	500-550 nm
FS/TEF-4Y1	Yellow	520-650 nm
FS/TEF-4Y2	Yellow	520-550 nm
FS/TEF-4Y3	Yellow	520-540 nm
FS/TEF-4R2	Red	590-660 nm
FS/TEF-4O2	OrangeRed	557-590 nm



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Újszász u. 47/E, H-1165 Budapest, HUNGARY
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FHS/T-01 „Miner’s Lamp” Frame
FS/ULS-02cc Light Source
FS/TEF-xxx Emission filter

€ 211,00
€ 376,00
€ 500,00

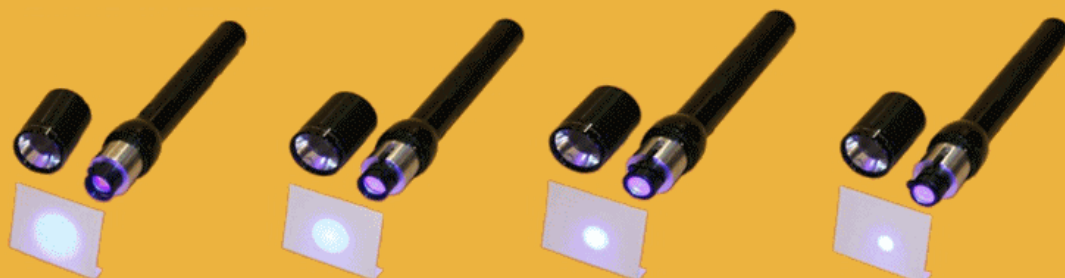
Click on image for larger view!

FLASHLIGHT

UFP-MDS-CC/HB



This **waterproof flashlight** version of the excitation light source allows a high level mobility in FP visualization. The new version has the interchangeability feature and can be used with all available light sources (**FS/ULS-02** models). The new light sources have the adjustable focus feature along with a 3 (three) position intensity switch. It operates on 4 (four) C size batteries. The **UFP-MDS-CC/HB** can be used for CFP, YFP, GFP, RFP and OFP emission visualization.



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FS/ULS-02RB	440-460 nm	Cyan
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Flashlight with Excitation Light Source

UFP-MDS-cc/HB

€ 594,00

FHS/T00 Goggles Frame

€ 69,00

FS/TEF-xxx Emission filter

€ 500,00

Cell Fusion Instrument

Type: CF-150/C

Price: € 3.106,00

Electrodes

Type: GSS-1000

GSS-500

GSS-250

GSS-R-500

Price: € 433,00

GSH-1 „Quick Clip”

Price: € 133,00

CELL FUSION CF-150/C



The CF-150/C impulse generator and corresponding electrode chamber are exclusively designed for electrofusion of mammalian embryo blastomeres and cell or nucleus with a mammalian egg in either electrolyte or non-electrolyte solutions. A properly oriented short electric impulse applied to the attached cells dissolves the membranes, allowing cytoplasmic and nuclear fusion of the cells. The instrument's major field of applications are the production of tetraploid mouse embryos and somatic nuclear transfer cloning.




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ELECTRODES GSS-1000

GSS-500

GSS-250



The CF-150C cell fusion instrument operates with specially designed high precision electrode chambers. The chambers are made with three different gap distances: 250µm, 500µm and 1000µm with corresponding model names of GSS-250, GSS-500 and GSS-1000, respectively. The electrodes are made of high quality stainless steel and attached to a thick glass slide. All the materials used are biologically friendly, non-toxic. The electrodes can be kept clean and sterile with ethanol.

QUICK CLIP GSH-1



This "quick clip" design secures the electrode to the side of the tissue culture dish (or its lid). It eliminates the risk of accidental sliding during electrofusion, and it provides a permanent attachment for the electrode wires. The clip can be used with any of the three electrodes GSS-250, GSS-500 or GSS-1000.

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ELECTRODES GSS-R-500



The GSS-R-500 electrodes are a model of a new electrode family, of medium size (500 µm), similar to the GSS electrode family, but without shadow formation.

The electrodes are made of high quality stainless steel and attached to a thick glass slide. The rod diameter is 0,6 mm. All the materials used are biologically friendly, non-toxic. The electrodes can be kept clean and sterile with ethanol.

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AGGREGATION NEEDLES DN-09

for chimera production

New design of aggregation needles to create small depression in the bottom of a tissue culture dish for aggregating small embryonic parts, such as:

1. two 8 - cell - stage embryos to produce chimeras.
2. clump of mouse embryonic stem (ES) cell and 8 - cell - stage mouse embryo to produce ES cell chimeras.
3. clump of ES cell and 4 - cell - stage tetraploid embryos to produce completely ES cell-derived embryos.
4. defined pieces of early post-implantation mouse embryos to study embryonic induction processes.



DN-09N

DN-09

DN-10

DN-10N

DN-10

Used with the ball show on the other side, these needles provide an ergonomic solution for lowering the stress on fingers and hands during use.



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Aggregation Needles

DN/09; DN-09/N

€ 199,00

DN/10; DN-10/N

€ 221,00

ACCESSORIES DN-10B ball

for aggregation needles

DN-10C cap



The plastic ball attached to the handle of the needle decreases the stress on the fingers and hands when the aggregation needle is in use. The ball can be used only with the new needle design (DN-10).
Cap protects the tip during storage.



Preparation of aggregation plates for mouse embryo chimera production. You will need the followings:

- 35 mm Falcon tissue culture plates KSOM.
- medium for preimplantation embryo in 1 ml syringe with 26G needle
- paraffin oil (Fish Scientific, Light Mineral oil, 0121-B)
- DN-09 aggregation needle

1. Using the medium filled syringe, put four rows of microdrops (roughly 3mm in diameter) into a 35 mm tissue culture dish, three drops in the first and fourth, five drops in the second and third rows.
2. Cover the whole plate with paraffin oil.
3. Sterilize the needle by wiping with ethanol.
4. Press the aggregation needle into the plastic through the paraffin oil and culture medium, while making a circular movement with the free end of the needle you are holding. Do not twist! This movement creates a tiny scoop of about 300 µm in diameter with a clear smooth wall.



Depression created by the needle containing an 8 - cell - stage mouse embryo.



Aggregation Needles

(DN-10; DN/10/N) accessories

Ball DN-10B

€ 33,00

Cap DN-10C

€ 11,00