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Phyto / Cryo

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INNOVATION IN SCIENTIFIC ARTICLES

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PHYTO

IN-VITRO PLANT CELL CULTURE

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INNOVATION IN SCIENTIFIC ARTICLES

Innosca is a German producer of scientific plastic ware. After studying our customer's needs from long term collaboration with industry and research scientists, we are able to offer greatly improved products tailored for our customer demands.

Vented vessels of INNOSCA were developed for the special demands for plant breeding. By the 7 µm pore size of the centered front-mounted polyethylene membrane the vessels were ventilated in an optimized way. At the same time the plants were protected against disruptive influences. All vented vessels are autoclavable.

Products of INNOSCA stand for highest efficiency – in applications, results and costs!

Innovation

The target of the development were products that keep all necessary functions for plant cell culture, a product that is easy to handle in the laboratories and is also cost-efficient.

For the implementation of this target many materials for the boxes and the frit in the lid were tested. Today we work with laser technique and use the most efficient materials that have proven the best results.

Vented In-vitro Vessels

This special construction of the ventilation the boxes ensure an optimal growth of the plants.
Our vented In-vitro vessels possess a frit made of polyethylene on the lid of the box. The pore size of the frit is 7 µm and the diameter is 25 mm. The frit is concentrically front-mounted and special pasted for autoclavation. Thus the complete regular ventilation for the growth of the plants becomes optimized.

Services

In-Vitro Vessels can be ordered un-sterile or pre-sterilized for your convenience.

Disposables

1. In-vitro Vessels

Our In-vitro Vessels are made of polypropylene.
The boxes have also a solid form thus the boxes can be handled without any exterior influences that could interfere the growth of the plants. The plants can be irradiated with UV-light because of the highly translucence of the material.

The vessels are intended for one-way use and are autoclavable (for example with culture medium). Beyond that the vessels are waterproof for weeks and therefore can also keep their sterility. So the use of unreliable rubber bands for tightening becomes no longer necessary. The special breech of the vessel engages and closes tightly without any additives.

Completely autoclavable (sterilize your culture media in the vessel). Vessels are waterproof for weeks and maintaining their sterility.
No more rubber bands our special breech of the vessel engages and closes tightly without any outside help.

Vessels are available for 400 ml, 500 ml and 1000 ml.
Optional the boxes are available with front-mounted membranes on the lid of the vessels.

Dimensions for 400 ml:	base	Ø 105 mm
	lid	Ø 128 mm
	height	Ø 60 mm
Dimensions for 500 ml:	base	Ø 105 mm
	lid	Ø 128 mm
	height	Ø 76 mm
Dimensions for 1000 ml:	base	Ø 105 mm
	lid	Ø 147 mm
	height	Ø 76 mm
Dimensions for membrane:	Ø 25 mm	
	Pore size 7 µm	

Disposables

2. Plant breeding tubes with snap cover

These tubes are made of transparent polypropylene are available in different sizes. Our membrane made of polyethylene can be front-mounted on the lid whereby the tube is ventilated very well.
At the same time the diffusion of micro-organisms were minimized. Furthermore the tube made of polypropylene is translucent for UV-light.
Actually the plant gets everything that it needs for a successful breeding: air, UV-light and sterility.

The tube has a solid conformation. Because of the snap lid the handling is simple and impedes contaminations of micro-organisms during working.

Availbale in different sizes!

Dimensions for 50 ml:	base	Ø 32 mm
	lid	Ø 35 mm
	height	Ø 80 mm
Dimensions for membrane:	Ø 25 mm	
	Pore size 7 µm	

3. Plant breeding tubes with screw top

These tubes are made of polypropylene. The body is made of high-transparent and the cover of white polypropylene. This tube is also available in different sizes and with the option of our front-mounted membrane made of polyethylene. Thereby the tube is ventilated very well and at the same time the diffusion of micro-organisms was minimized. Furthermore the tube is translucent for UV-light.

Actually the plant gets everything that it needs for a successful breeding: air, UV-light and sterility.

Available in different sizes!

Dimensions for 50 ml:	base	Ø 52 mm
	lid	Ø 59 mm
	height	Ø 102 mm
Dimensions for membrane:	Ø 25 mm	
	Pore size 7 µm	

Re-usables

1. Magenta vessels

The vessels have a solid form and can be autoclaved several times. The body of the vessel is made of high-transparent polycarbonate and the cover is made of polypropylene. Those re-usable vessels in two sizes are also available with our membrane made of polyethylene. Thereby the vessels are ventilated very well and the plants were not influenced of penetrative micro-organisms.

The membrane with fixing is available separately. After several times of autoclaving the membrane should be replaced.

M1:7,6 x 7,6 x 7,6 cm	
M2: 7,6 x 7,6 x 10,2 cm	
Dimensions for membrane:	Ø 25 mm
	Pore size 7 µm

2. Cover for baby food jars

Those covers offers highest UV-translucence to the plants. For the additional ventilation of the jar the cover is also available with our membrane made of polyethylene. So the jars can be used in a much more effective way for plant breeding.

Dimensions	base	Ø 60 mm
	top	Ø 52 mm
	height	Ø 18 mm
Dimensions for membrane:	Ø 25 mm	
	Pore size 7 µm	

CRYO

BOXES AND LABELS

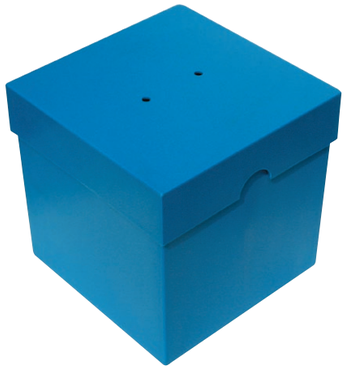
Cryoboxes of INNOSCA were developed to replace
the inefficient cryoboxes made of paperboard.
Our Cryoboxes are very cost-efficient
and can be used over years.
In addition we carry a range of cryo labels for our
boxes. Those were also freezable up to – 80 °C.

Innovation

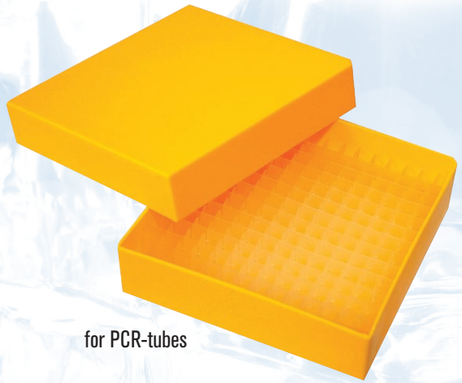
The target of the development of this cryoboxes was to novate the cryoboxes made of paperboard. The cryoboxes made of paperboard are inefficient for storage in -90 °C. Especially after a few repeats of thawing the boxes were drenched and became unusable.

Innosca developed a range of cryoboxes that are deep-freezable up to -90 °C and also autoclavable. In particular, the cryoboxes shall replace the paperboard boxes and therefore they have to be cost-efficient.

For the implementation of this target many materials for the boxes and for their dividers were tested. Today we work with laser technique and use the most efficient materials that have proven the best results.



Tubes for centrifuge



for PCR-tubes

Cryoboxes

Innosca Cryoboxes are made of Polypropylene. The boxes have a solid form thus the boxes can be handled without any exterior influences on the substances in the boxes. Because the boxes are deep-freezable up to -90 °C and are also autoclavable they are much more durable than the boxes made of paperboard. The dividers for tubes are also made of polypropylene and can be replaced independently.

Especially because of the durability of the cryoboxes made of polypropylene the boxes are much more cost-efficient for the consumers in comparison with boxes made of paperboard.

Sizes and Specifications

Boxes are available for
heights: 37 cm, 50 cm, 75 cm, 135 cm
dividers: 16 to 196 tubes (not for all heights)
Dimensions of the boxes:
135 cm x 135 cm x height

Polypropylene Storage-boxes and dividers for Cryovials - the cool solution to store your B19+D21: H26+D21, with and without dividers in 37, 50, 75 or 135 mm height.

X indicates color-code; please declare accordingly

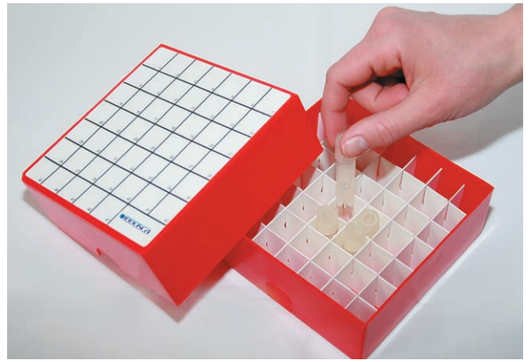
Box nature (white):	X = n
Box red:	X = r
Box yellow:	X = y
Box green:	X = g
Box blue:	X = b
Colour set (one of each):	X = m

3 01 Cryobox

article no.	height	capacity
PP37-100E x	37 mm	100 vials (10x10) up to 12 mm Ø
PP37-196E x	37 mm	196 vials (14x14) 0,5 ml/8 mm Ø
PP50E x	50 mm	Empty Box- without dividers
PP50-49E x	50 mm	49 vials (7x7) 16mm Ø
PP50-64E x	50 mm	64 vials (8x8) 14mm Ø
PP50-81E x	50 mm	81 vials (9x9) 13mm Ø
PP50-100E x	50 mm	100 vials (10x10) 12mm Ø
PP75 x	75 mm	Empty Box- without dividers
PP75-49E x	75 mm	49 vials (7x7) 16mm Ø
PP75-64E x	75 mm	64 vials (8x8) 14mm Ø
PP75-81E x	75 mm	81 vials (9x9) 13mm Ø
PP75-100E x	75 mm	100 vials (10x10) 12mm Ø
PP75H x	75 mm	Empty Box – without dividers
PP75-16H x	75 mm	16 vials (4 x4)
PP75-25H x	75 mm	25 vials (5 x5)
PP75-49H x	75 mm	49 vials (7 x7) 16mm Ø
PP75-64H x	75 mm	64 vials (8 x8) 14mm Ø
PP75-81H x	75 mm	81 vials (9 x9) 13mm Ø
PP75-100H x	75 mm	100 vials (10 x10) 12mm Ø
PP135H x	135 mm	Empty Box – without dividers
PP135-16H x	135 mm	16 vials (4 x4) up to 35 mm Ø
PP135-25H x	135 mm	25 vials (5 x5) up to 25 mm Ø
PP135-49H x	135 mm	49 vials (7 x7) up to 16 mm Ø
PP135-81H x	135 mm	81 vials (9 x9) up to 13 mm Ø

3 02 Cryolabels

Description	Order no.	Size
Label for cryobox (on the lid) made of coldness resistent foil. Also usable in liquid nitrogen. xx - size of printed raster.	128 x 128 mm	3 02 101-xx
302101 + Additional imprint with your company logo. Minimum purchase: 50 pieces	128 x 128 mm	3 02 102-xx
Label for cryobox (on the side) made of coldness resistent foil. Also usable in liquid nitrogen. Individual imprint. Minimum purchase: 50 pieces	128 x 42,5 mm	3 02 1 03
302103 + Imprint of barcode (your model). Minimum purchase: 250 pieces	128 x 42,5 mm	3 02 1 04
302103 + Minimum purchase: 1000 pieces	36,5 x 16 mm	3 02 1 05
further labels on request!		



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Purchase Order

Dear Sir or Madam!
Herewith we order the following products:

Article no.	Description	Quantity	Price per Unit	Total Price

The prices are subjects to change and exclusive of VAT, with postage and packing extra.

FROM:

Name _____
Company / University _____
Institute, Room No _____
Street _____
Postal Code _____
Location _____
Phone No _____
Fax No _____
e-mail _____
Date _____
Signature _____

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