

## Cooling/Cryogenic tubes

### Warning

Do not use CryoTubes in the liquid phase of liquid nitrogen unless correctly sealed. Improper use may cause liquified nitrogen to be trapped inside the vial and lead to pressure build-up, resulting in possible explosion or biohazard release.

➔ Products for nitrogen storage - please see page 768.

**1**


### 1 LLG-Cryotubes, PP, sterile



With star-shape in the screw cap, for automated capper/decapper. Temperature resistant down to -196°C. **Not appropriate for operations in liquid nitrogen.** With marking area, fill line and graduations printed on the vial. Safe and precise handling of biotechnology materials. Bar-code printed on each tube. DNase/RNase free. Vials and caps are autoclavable at 121 °C.

#### Homogeneous conception:

- all made from polypropylene
- single-body, single-turn screw cap

Printed graduations for accurate measurements. Large white area for writing specimen identification. Sterile.

Packed in 2 bags of 50 tubes.

Description	Capacity ml	Ext. diam. mm	Height mm	Thread	PK	Cat. No.
self-standing	1.2	12.6	40.2	external	100	9.401 160
self-standing	1.2	12.6	40.2	internal	100	9.401 161
self-standing	2.0	12.6	45.6	external	100	9.401 162
self-standing	2.0	12.6	48.2	internal	100	9.401 163
without ring	2.0	12.6	44.5	external	100	9.401 164
without ring	2.0	12.6	47.0	internal	100	9.401 165
self-standing	5.0	12.6	87.6	external	100	9.401 166
without ring	5.0	12.6	89.2	internal	100	9.401 167
self-standing	5.0	12.6	90.3	internal	100	9.401 168

Fits in 10 x 10 Cryobox System 100™ 5026, Order No: 9.400 927

**2**


### 2 Insert cap disks for LLG cryotubes, PP

Cap-disk with star-shaped insert. For colour-coding of cryotubes and quick identification of the samples.

Colour	PK	Cat. No.
blue	1000	9.401 170
white	1000	9.401 171
yellow	1000	9.401 172
pink	1000	9.401 173
red	1000	9.401 174
green	1000	9.401 175



## 7. Heating and cooling technology

### Cooling/Cryogenic tubes

#### 1 2 Cryogenic tubes, PP



BRAND

Designed for storage of biological material, such as microorganisms, human and animal cells, etc. in the gas phase of liquid nitrogen.  
 Graduated, 12.5 mm o.d. Large frosted marking area and coloured cap inserts for easy sample identification.  
 Temperature stability to -196 °C. gamma-ray sterile (SAL 10<sup>-6</sup>) and autoclavable at 121 °C (2 bar), according to DIN EN 285. Cryogenic vials are sterile, RNase-, DNase-, DNA- and endotoxin-free.



Description	Capacity	Grad. up to	Height	Thread	PK	Cat. No.
	ml	ml	mm			
self-standing	1.2	1.0	41	external	1000	<b>6.801 655</b>
round-bottom	2.0	1.8	47	external	1000	<b>6.206 393</b>
self-standing	2.0	1.8	49	external	1000	<b>7.079 366</b>
self-standing	3.0	3.0	70	external	1000	<b>6.802 266</b>
self-standing	4.0	3.6	76	external	1000	<b>7.059 827</b>
self-standing	5.0	4.5	90	external	1000	<b>7.300 349</b>
self-standing	1.2	1.0	41	internal	1000	<b>7.300 557</b>
self-standing	2.0	1.8	49	internal	1000	<b>7.053 349</b>
round-bottom	2.0	1.8	48	internal	1000	<b>7.604 109</b>
round-bottom	4.0	3.6	70	internal	1000	<b>9.401 223</b>
self-standing	4.0	3.6	71	internal	1000	<b>9.401 224</b>
round-bottom	5.0	4.6	90	internal	1000	<b>7.610 567</b>



#### 3 Cap coders, PP for Brand® cryogenic tubes

For colour coding. Fit for all sizes.

BRAND

Colour	PK	Cat. No.
white	500	<b>7.200 575</b>
blue	500	<b>7.077 849</b>
red	500	<b>7.053 350</b>
green	500	<b>7.079 679</b>
yellow	500	<b>7.600 162</b>



#### 4 Cryovials with external screw thread, PP

With screw cap, self-standing. Increase storage capacity in mechanical and gaseous phase liquid nitrogen freezers. With writing area and graduation. Gamma radiation sterilized. One-handed operation possible. DNase/RNase free. Pyrogen-free and non-cytotoxic.  
 SYSTEM 100: Cryovials for space-saving storage (10 x 10 per box).

Thermo Scientific



Type	Cover type	Description	Sterile	Capacity	Ext. diam.	Height	PK	Cat. No.
				ml				
5000	PP	silicone gasket, SYSTEM 100	+	1.0	12.0	38	500	<b>4.675 510</b>
5000	PP	silicone gasket, SYSTEM 100	+	1.5	12.0	48	500	<b>4.675 511</b>
5000	HDPE	sealing ring	+	1.2	13.5	38	500	<b>4.675 512</b>
5000	HDPE	sealing ring	+	2.0	13.5	48	500	<b>4.675 513</b>
5000	HDPE	sealing ring	+	5.0	13.5	92	250	<b>4.675 514</b>
5005* **	HDPE	without inlay	+	15.0	33.0	47	75	<b>9.400 950</b>

\*not DNase-/RNase-free

\*\*Flat bottom

Also available in a larger pack size (1000 pc.).

#### 5 Colour Coders for Cryotubes Nalgene™, PS

Coloured PS cap inserts.

Thermo Scientific

Colour	PK	Cat. No.
white	100	<b>9.400 967</b>
yellow	100	<b>9.400 968</b>
blue	100	<b>9.400 969</b>
green	100	<b>9.400 970</b>
red	100	<b>9.400 971</b>



➔ Cryo labels - please see page 764.

## Cooling/Cryogenic tubes



### 1 2 Cryotubes Nunc with External Thread, PP/PE

Intended for cryogenic transportation and storage of biological material. Available in three different tube types: Round or conical bottom shape with starfoot or round without foot (= non free standing). Conform to the IATA requirements for the transport of diagnostic specimens and to the US pharmacopoeia USP Class VI. Packed in resealable zip lock bags with printed catalog no. and lot. no. Pyrogen-free. Non-toxic. Sterile (SAL 10<sup>-6</sup>). Certified RNase- and DNase-free.

Thermo Scientific

Material tubes: PP  
Material screw caps: PE



Warning:  
Do not use CryoTubes in the liquid phase of liquid nitrogen unless correctly sealed in Nunc CryoFlex™ Tubing (Cat. No. 4.009 142). Improper use may cause liquified nitrogen to be trapped inside the vial and lead to pressure build-up, resulting in possible explosion or biohazard release.

Description	Capacity	Ext. diam. mm	Height mm	PK	Cat. No.
	ml				
Conical, starfoot and writing area	1.0	12.5	41	2000	<b>4.675 472</b>
Round, starfoot and writing area	1.8	12.5	48	1800	<b>4.675 471</b>
Round, starfoot and writing area	4.5	12.5	91	1200	<b>4.675 474</b>
Conical, starfoot	1.0	12.5	41	2000	<b>4.009 087</b>
Round, starfoot	1.8	12.5	48	1800	<b>4.675 478</b>
Round, starfoot	4.5	12.5	91	1200	<b>4.008 952</b>
Round, writing area*	1.0	12.4	30	500	<b>6.800 399</b>

\* Closure design does not permit the use of Cryo Color Coders.



### 3 4 Cryotubes Nunc with Internal Thread, PP, sterile

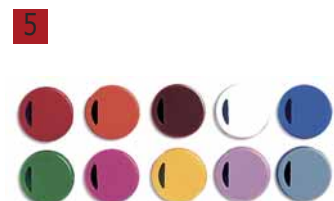
Intended for cryogenic transportation and storage of biological material. Internal thread with a silicone gasket provides the best possible seal. Available in four different bottom shapes: Round with or without free standing and round or conical with starfoot. Conform to the IATA requirements for the transport of diagnostic specimens and to the US pharmacopoeia USP Class VI. Packed in resealable zip lock bags with printed catalog no. and lot. no. Pyrogen-free. Non-toxic. Sterile (SAL 10<sup>-6</sup>). Certified RNase- and DNase-free. Material tube and screw cap: PP

Thermo Scientific

Warning:  
Do not use CryoTubes in the liquid phase of liquid nitrogen unless correctly sealed in Nunc CryoFlex™ Tubing (Cat. No. 4.009 142). Improper use may cause liquified nitrogen to be trapped inside the vial and lead to pressure build-up, resulting in possible explosion or biohazard release.



Description	Capacity	Ext. diam. mm	Height mm	PK	Cat. No.
	ml				
Round and writing area	1.8	12.5	48.0	2000	<b>4.675 469</b>
Round and writing area	3.6	12.5	70.0	1600	<b>4.675 480</b>
Round and writing area	4.5	12.5	92.0	1200	<b>4.675 481</b>
Round, starfoot and writing area	1.8	12.5	49.0	1800	<b>4.675 476</b>
Round, starfoot and writing area	3.6	12.5	72.0	1600	<b>4.675 473</b>
Round, starfoot and writing area	4.5	12.5	92.0	1200	<b>4.675 475</b>
Round, free standing and writing area	1.8	12.5	49.0	1800	<b>4.675 477</b>
Round, starfoot	0.5	8.8	35.0	960	<b>4.008 814</b>
Round, starfoot	1.0	8.8	48.5	960	<b>4.008 821</b>
Conical, starfoot and writing area	1.0	12.5	42.0	2000	<b>4.675 470</b>
Conical, free standing and writing area	1.0	12.5	42.0	2000	<b>4.675 479</b>



### 5 Colour Coders for Cryotubes Nunc™, PC

Use Nunc Cryo Colour Coders as part of a versatile and comprehensive filing system. Fit all CryoTubes™ and are available in 10 different colours.

Thermo Scientific

Colour	PK	Cat. No.
Red	500	<b>7.079 568</b>
Orange	2000	<b>9.401 272</b>
Brown	500	<b>7.630 646</b>
White	2000	<b>9.401 274</b>
Blue	2000	<b>9.401 275</b>
Green	2000	<b>9.401 276</b>
Magenta	500	<b>6.204 811</b>
Yellow	2000	<b>9.401 278</b>
Purple	500	<b>6.901 208</b>
Grey	500	<b>6.901 244</b>
Assorted colours	500	<b>7.200 519</b>

#### 1 Cryogenic vial racks, PC

Blue. Safe storage and transport of cryogenic vials.

Heathrow Scientific

- Drainage holes in each well
- Alphanumeric identification
- Temperature resistant up to -196 °C
- Autoclavable

Volume	Array	For tubes diam.	PK	Cat. No.
litres		mm		
2 - 5	50	12.9	4	6.238 908



#### 2 LLG-Cryogenic storage boxes, plastic coated, 136 x 136

Freezer and cryogenic storage boxes (CryoBoxes). Dimensions: 136 x 136mm square. For the storage of samples. Made of cardboard, **plastic coated** without divider. With lid. Further colours available on request.

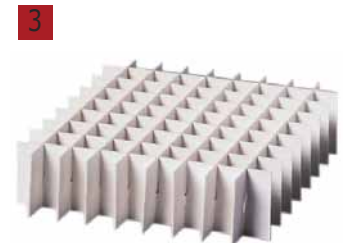
Colour	Int. height mm	PK	Cat. No.
white	32	1	4.653 682
blue	32	1	6.269 788
red	32	1	6.269 789
green	32	1	6.269 790
white	50	1	6.080 130
yellow	50	1	6.077 876
blue	50	1	6.077 875
green	50	1	6.081 021
red	50	1	6.081 022
white	75	1	6.802 726
blue	75	1	6.260 006
red	75	1	6.260 007
green	75	1	6.260 008
yellow	75	1	6.260 009
white	100	1	6.237 840
blue	100	1	6.260 010
red	100	1	6.260 011
yellow	100	1	4.654 547
white	130	1	6.083 519



#### 3 LLG-Partition inserts for Cryoboxes, 136 x 136

For cryoboxes 136 x 136 mm. With compartment heights and formats as indicated. Other sizes available on request.

Height	Array	For tubes diam.	PK	Cat. No.
mm		mm		
22	7 x 7	17.9	1	4.654 558
22	8 x 8	15.7	1	4.654 557
22	9 x 9	13.9	1	4.654 556
22	10 x 10	12.5	1	4.654 555
40	9 x 9	13.9	1	9.405 872
22	12 x 12	10.2	1	4.654 554
22	13 x 13	9.4	1	4.654 553
22	14 x 14	8.7	1	4.654 552
22	16 x 16	7.5	1	6.257 202
30	4 x 4	32.0	1	6.305 840
30	5 x 5	25.5	1	9.401 055
30	6 x 6	21.0	1	6.090 419
30	7 x 7	17.9	1	7.617 877
30	8 x 8	15.7	1	6.243 752
30	9 x 9	13.9	1	9.405 871
30	10 x 10	12.5	1	9.405 875
30	12 x 12	10.2	1	9.401 050
30	13 x 13	9.4	1	6.228 893
30	14 x 14	8.7	1	6.260 016
30	16 x 16	7.5	1	9.405 883
40	4 x 4	32.0	1	6.401 505
40	5 x 5	25.5	1	6.260 020
40	6 x 6	21.0	1	6.202 839
40	7 x 7	17.9	1	6.802 215
40	8 x 8	15.7	1	6.900 361
40	10 x 10	12.5	1	9.405 876
40	12 x 12	10.2	1	9.405 880
65	6 x 6	21.0	1	6.201 071
65	8 x 8	15.7	1	6.801 789
65	9 x 9	13.9	1	9.405 873
65	10 x 10	12.5	1	9.405 877
65	4 x 4	32.0	1	9.405 870
65	5 x 5	25.5	1	6.079 677



## Cooling/Cryogenic boxes

**1**


### 1 LLG-Cryogenic storage boxes, plastic coated, 133 x 133

Dimensions: 133 x 133mm square. For the storage of samples. Made of cardboard, **plastic coated**. Without divider. With lid. Further sizes and colours available on request.

Colour	Int. height mm	PK	Cat. No.
white	32	1	6.260 029
red	32	1	6.234 735
green	32	1	4.654 505
yellow	32	1	4.654 506
blue	32	1	6.802 431
white	50	1	6.082 701
red	50	1	6.081 654
green	50	1	6.084 538
yellow	50	1	6.260 091
blue	50	1	6.700 568
white	75	1	6.801 707
green	75	1	6.803 056
yellow	75	1	6.260 031
blue	75	1	9.698 776
white	100	1	6.260 032
red	100	1	9.698 787
green	100	1	9.698 788
yellow	100	1	9.698 789
blue	100	1	9.698 786
white	130	1	6.260 033

**2**


### 2 LLG Partition inserts for Cryoboxes, 133 x 133

For cryoboxes 133 x 133 mm. With compartment heights and formats as indicated. Other sizes available on request.

Height mm	Array	For tubes diam. mm	PK	Cat. No.
22	8 x 8	15.0	1	4.654 512
22	9 x 9	13.0	1	6.265 799
22	10 x 10	12.0	1	6.265 800
22	12 x 12	9.8	1	4.653 626
30	4 x 4	30.8	1	6.260 038
30	5 x 5	24.5	1	7.606 811
30	6 x 6	20.3	1	6.265 798
30	7 x 7	17.3	1	9.698 773
30	8 x 8	15.0	1	9.698 772
30	9 x 9	13.0	1	6.081 879
30	10 x 10	12.0	1	6.075 820
30	12 x 12	9.8	1	6.260 035
40	4 x 4	30.8	1	4.654 519
40	5 x 5	24.5	1	6.260 044
40	6 x 6	20.3	1	6.260 043
40	7 x 7	17.3	1	9.698 783
40	8 x 8	15.0	1	9.698 782
40	9 x 9	13.0	1	9.698 781
40	10 x 10	12.0	1	9.698 780
65	3 x 3	41.2	1	4.654 521
65	4 x 4	30.8	1	6.079 079
65	5 x 5	24.5	1	6.260 046
65	6 x 6	20.3	1	6.206 129
65	7 x 7	17.3	1	9.698 793
65	8 x 8	15.0	1	9.698 792
65	9 x 9	13.0	1	9.698 791
65	10 x 10	12.0	1	9.698 790
30	14 x 14	8.3	1	4.654 514

**3**


### 3 Cryogenic Cardboard Boxes, 145 x 145 and Partitions

For storage of large samples and 15 and 50 ml tubes. One size box safely stores 15 and 50 ml tubes in LN<sub>2</sub> or mechanical freezers. Choose from two partitions for your tube size. Colour white.

*Heathrow Scientific*

Description	Int. height mm	PK	Cat. No.
Box for 15 or 50 ml tubes, with lid	122	1	6.254 570
Partition for 16 x 50 ml tubes	122	1	6.254 571
Partition for 36 x 15 ml tubes	122	1	6.254 572

### 1 LLG-Cryogenic storage boxes, PP, autoclavable



With 81 places, 9 x 9 grid and numerical coded. Robust hinge with safe snap-on lid, stackable for safe transport. Minimised liquid retention. Guaranteed metal free. Temperature resistant from -90 °C - +121 °C, autoclavable at 121 °C, opened, 20 minutes. Dimensions: 133 x 133 x 52 mm

1



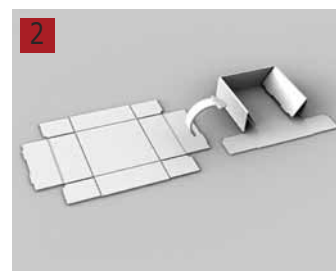
Colour	Array	PK	Cat. No.
Magenta/clear	9 x 9	1	9.405 800

### Cryogenic Boxes true north® Flatpack

Reusable, economical and moisture resistant plastic. Made from polypropylene material. Easy self-assemble boxes shipped flat-packed saving space in the laboratory. More durable than card boxes as they are not susceptible to moisture. Significantly reduces the chance of mould. Suitable for repeated freezing and defreezing. Dividers included with the boxes.

Heathrow Scientific

2



### 2 Cryogenic Boxes true north® Flatpack, PP

Store down to temperatures of -80 °C.

Heathrow Scientific

3



6.281 160

For tubes	Colour	Dimensions (W x D x H)	Array	PK	Cat. No.
ml		mm			
0.2	white	133 x 130 x 30	144	10	6.281 163
0.5	white	133 x 130 x 42	81	10	6.281 166
0.5	blue	133 x 130 x 42	81	10	6.281 167
1.5/2.0	white	133 x 130 x 51	81	10	6.281 158
1.5/2.0	blue	133 x 130 x 51	81	10	6.281 161
5.0	white	133 x 130 x 75	25	10	6.281 169
5.0	blue	133 x 130 x 75	25	10	6.281 170
15	white	145 x 147 x 120	36	10	6.281 172
15	blue	145 x 147 x 120	36	10	6.281 173
50	white	145 x 147 x 120	16	10	6.281 159
50	blue	145 x 147 x 120	16	10	6.281 160

### 4 Cryogenic storage boxes Arctic Square®, PC, autoclavable



Safely store vials from -196 to +121 °C for repeated use in mechanical freezers as well as liquid nitrogen. Boxes are designed with unique features to help the user orient, identify, and access vials with ease. The forward-sloped base and high-contrast, imprinted indexing on the transparent lid ensure quick visual orientation. Hinged lid allows easy one-handed access to samples. A built-in stop prevents the lid from swinging too far when the box is picked up by the lid, helping to prevent accidental spills. The 5 x 5 array box does not have hinged lid. All boxes include vent and drainage holes. Stackable. Autoclavable.

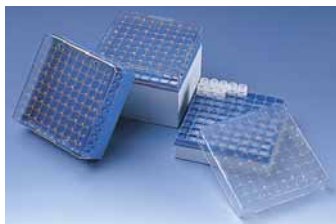
Heathrow Scientific

4



For tubes	Colour	Dimensions (W x D x H)	Array	PK	Cat. No.
		mm			
up to 2.0 ml	red	76 x 76 x 53	5 x 5	1	9.405 911
up to 2.0 ml	red, blue, green, purple	133 x 133 x 53	9 x 9	4	9.405 913
up to 2.0 ml	blue	133 x 133 x 53	10 x 10	1	9.405 910

## Cooling/Cryogenic boxes

**1**


### 1 Storage boxes, PC for cryogenic tubes



BRAND

Operating range: -196 °C to +121 °C (in gas phase of liquid nitrogen).  
Autoclavable at 121 °C (2 bar), according to DIN EN 285.

For tubes	For thread type	Width	Depth	Height	Aperture array	PK	Cat. No.
ml		mm	mm	mm	qty.		
1.2 and 2	internal / external	132	132	52	81	1	<b>7.400 583</b>
3, 4 and 5	external	132	132	95	81	1	<b>7.071 111</b>
1.2 and 2	internal	132	132	52	100	1	<b>7.300 574</b>

**2**


### 2 Cryogenic boxes, PP, 133 x 133

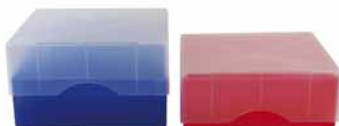


Ratiolab

For cryogenic storage of cryotubes.

- 9 x 9 grid
- Grid numerically coded
- Removable grid inserts
- Hinge with safe snap-on lid
- Stackable
- Drain bores at the bottom for dew liquid
- Temperature resistant from -90 to 121 °C
- Autoclavable

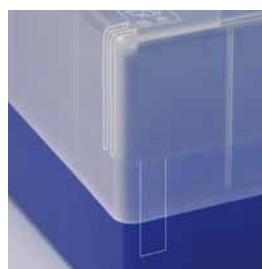
Colour	Height	For tubes	PK	Cat. No.
	mm	ml		
natural	52	1.2 ... 2	1	<b>9.405 890</b>
yellow	52	1.2 ... 2	1	<b>9.405 892</b>
red	52	1.2 ... 2	1	<b>9.405 894</b>
green	52	1.2 ... 2	1	<b>9.405 896</b>
blue	52	1.2 ... 2	1	<b>9.405 898</b>
black	52	1.2 ... 2	1	<b>9.405 900</b>
natural	75	3 ... 4	1	<b>9.405 891</b>
yellow	75	3 ... 4	1	<b>9.405 893</b>
red	75	3 ... 4	1	<b>9.405 895</b>
green	75	3 ... 4	1	<b>9.405 897</b>
blue	75	3 ... 4	1	<b>9.405 899</b>
black	75	3 ... 4	1	<b>9.405 901</b>

**3**


### 3 4 Cryogenic boxes, slip lid with adaptable height, PP, 133 x 133

Ratiolab

- Made from polypropylene
- Height adaptable from 50 mm to 75 mm, by turning the lid 90°
- 9 x 9 array, 10 x 10 array
- Numerical coded places (except black box)
- Drain bores at the bottom for dew liquids
- Autoclavable, temperature resistant from -90 °C to +121 °C

**4**


Colour	For tubes diam.	Array	PK	Cat. No.
	mm			
natural	13	9 x 9	5	<b>9.405 840</b>
yellow	13	9 x 9	5	<b>9.405 843</b>
red	13	9 x 9	5	<b>9.405 845</b>
green	13	9 x 9	5	<b>9.405 844</b>
blue	13	9 x 9	5	<b>9.405 842</b>
black	13	9 x 9	5	<b>9.405 846</b>
natural, yellow, red, green, blue	13	9 x 9	5	<b>9.405 841</b>
natural	11.5	10 x 10	5	<b>9.405 847</b>
yellow	11.5	10 x 10	5	<b>9.405 848</b>
red	11.5	10 x 10	5	<b>9.405 849</b>
green	11.5	10 x 10	5	<b>9.405 850</b>
blue	11.5	10 x 10	5	<b>9.405 851</b>
black	11.5	10 x 10	5	<b>9.405 852</b>
natural, yellow, red, green, blue	11.5	10 x 10	5	<b>9.405 855</b>

### 1 Cryogenic Boxes, CryoBoxes™, PC



Thermo Scientific

1



Robust design, autoclavable. With printed grid on lid for cryovials and similar tubes up to 13.5 mm diameter (except type 5026: up to Ø 12.5 mm). Temperature resistant from -196 to 121 °C. With grid numbers for reliable identification of individual samples.

Type 5050 is a plain box with transparent PC lid, without grid, used for storing tubes of various sizes.

Type	For tubes ml	Dimensions (l x w x h) mm	Array	PK	Cat. No.
5026	1/1.5	133 x 133 x 52	10 x 10	1	9.400 927
5025	1.2/2.0	76 x 76 x 52	5 x 5	1	9.400 946
5026	1.2/2.0	133 x 133 x 52	9 x 9	1	9.400 947
5027	5.0	133 x 133 x 95	9 x 9	1	9.400 948
5050		133 x 133 x 52	1	1	9.400 949

### 2 Cryogenic boxes, 81 well, PP, autoclavable



The boxes are made of polypropylene and can be used in temperatures as low as -90 °C. The boxes are autoclavable at +121 °C for 20 minutes. The boxes have a fixed grid divider with 9x9 cells and are suited for 1.0 ml and 2 ml cryogenic vials. Cellcodes are printed on the lid for easy identification.

2



Type	Dimensions (W x D x H) mm	PK	Cat. No.
blue	130 x 130 x 50	1	9.698 708
green	130 x 130 x 50	1	9.698 709
natural	130 x 130 x 50	1	9.698 710
red	130 x 130 x 50	1	9.698 711
yellow	130 x 130 x 50	1	9.698 712

### 3 Cryogenic boxes, PP, 81 well, autoclavable



Heathrow Scientific

3

Polypropylene box fits in standard freezer racks. Locate tubes is easily with moulded grid lines and a moulded reference point on the lid. Stores 1.5 ml to 2.0 ml microtubes under easy-open, friction-fit lid. Dimensions: 130 mm x 130 mm x 47 mm. Autoclavable.



Colour	PK	Cat. No.
natural	1	9.193 983
blue	1	7.078 821
green	1	7.058 103
pink	1	7.058 102
yellow	1	7.078 822
orange	1	7.083 522
black	1	6.282 195
blue, green, pink, yellow, orange	5	9.193 984



## Cooling/Cryogenic boxes

**1**


### 1 Microtube Storage Boxes, PP, 50-/100-Well

Heathrow Scientific



Autoclavable. Compact storage box has angled front slot for easy access to tubes. Rugged, polypropylene box has durable three-point hinges, snapping clasp for secure closure, moulded grid lines on lid, imprinted coordinates on bottom of base and imprinted and raised coordinates on tube wells. Ideal for sample or case study storage. Holds 1.5 ml to 2.0 ml microtubes. Resist storage temperatures from -80 to +121 °C.

Colour	Dimensions (l x w x h)	Array	PK	Cat. No.
mm				
blue, green, purple, yellow, orange	141 x 92 x 56	50	5	9.193 985
natural	141 x 92 x 56	50	1	6.243 162
blue, green, purple, yellow, orange	141 x 151 x 57	100	5	9.193 981
natural	141 x 151 x 57	100	1	6.206 710
black	141 x 151 x 57	100	1	6.253 894

### 2 Microtube Storage Boxes, PC

ISOLAB

Manufactured from polycarbonate with high mechanical strength and high temperature resistance between -196 to +121 °C. Uniquely designed to carry 81 cryo tubes in 9 x 9 array "Hedgehog" designed tube compartments holds the tube in their position firmly. Unique design with vent and drainage holes guarantees best, efficient air circulation. Forward slope base ensures quick visual orientation. Easily stackable for reducing storage space. Hinged lid with built-in stop allows easy one-handed access to tubes. Clear box lid enables easy identification of box content and protects the tubes from dust, moisture and other environmental effects. Alphanumerical index both on tube rows and the lid enables easy identification of tube positions. Box is supplied together with a disposable forceps, made from ABS, with fine end for easy handling and fast removal of tubes.

Volume ml	Colour	Dimensions (W x D x H) mm	PK	Cat. No.
2.0	green	133 x 133 x 53	1	4.664 457
5.0	blue	133 x 133 x 96	1	6.286 848

**2**

**3**


### 3 50-/100-Well cryogenic boxes, EPS

Heathrow Scientific

Inexpensive freezer storage. Lightweight 1.5ml to 2.0ml microtube racks are ideal for long-term studies or tube storage. Two-piece racks are constructed of expanded polystyrene (EPS) foam. Extra spacing between wells allows easy gripping with fingertips. Racks stack securely with nesting features on lid and base. Resist storage temperatures from -80 °C up to +70 °C. Not autoclavable.

Dimensions (l x w x h) mm	No. of wells	PK	Cat. No.
210 x 100 x 71	50	1	9.193 987
336 x 95 x 73	100	1	9.193 986

**4**


### 4 Cryoware marker set Nalgene™, Type 6313

Thermo Scientific

For durable labelling of cardboard, plastic and cloth material for use at ultra-low temperatures. Non-smudge and non-running. Removable with alcohol. Extra fine point. Two packs available: 1 pack contains one each red, green, black and blue marker while the other pack contains black markers only.

Type	Description	PK	Cat. No.
6313	Assorted	4	9.400 978
6313	Black	4	9.400 979

### 1 Chest Freezers Racks, vertical

Stainless steel racks, suitable for all brands of chest freezer.  
For boxes up to 136 x 136 mm.

Type	Width	Depth	Height	Height Box	PK	Cat. No.
	mm	mm	mm	mm		
7 x 1	140	141	390	approx. 53	1	9.698 962
10 x 1	140	141	557	approx. 53	1	9.698 746
11 x 1	140	141	613	approx. 53	1	9.698 963
12 x 1	140	140	665	approx. 53	1	9.698 964
13 x 1	140	141	724	approx. 53	1	9.698 965
5 x 1	140	141	406	approx. 78	1	9.698 967
8 x 1	140	141	649	approx. 78	1	9.698 966
9 x 1	140	141	730	approx. 78	1	9.698 968



### 2 Upright Freezer Racks

Stainless steel racks, suitable for all brands of upright freezers.  
For boxes up to 136 mm x 136 mm.

Type	Width	Depth	Height	Height Box	PK	Cat. No.
	mm	mm	mm	mm		
2 x 3	140	423	164	approx. 75	1	9.698 954
4 x 3	140	419	221	approx. 50	1	9.698 950
6 x 4	140	562	331	approx. 50	1	9.698 959
4 x 4	556	140	326	approx. 78	1	9.698 960
5 x 4	556	140	407	approx. 78	1	9.698 961
4 x 4	558	139	221	approx. 53	1	9.698 969
3 x 4	558	139	168	approx. 53	1	9.698 970
5 x 4	558	139	276	approx. 53	1	9.698 971
7 x 4	556	140	392	approx. 53	1	9.698 972
4 x 5	688	139	221	approx. 53	1	9.698 973
5 x 3	419	139	276	approx. 53	1	9.698 974
3 x 4	556	139	240	approx. 78	1	9.698 975
3 x 3	419	139	240	approx. 78	1	9.698 976



### 3 Racks for cryoboxes Arctic Squares®

Stainless steel. Fits most standard upright freezers. *Heathrow Scientific*  
Overall rack size (H x W x D): 238 x 139 x 571 mm.  
With four drawers to hold 16 boxes of 133 x 133 x 53 mm.  
Drawers feature a unique stop that when fully extended pivot down allowing for easy box access.  
Freezer rack also includes a pull-out wire handle for easy removal off the shelf. Polycarbonate drawer handles provide a user-friendly grip. Includes a slot and label for drawer/sample identification.

Type	PK	Cat. No.
Arctic Squares®	1	9.193 980



### 4 Deep freeze labels TOUGH-SPOTS®

Pre-cut Peel-off round labels for 0.5 and 1.5/2.0 ml microcentrifuge tube tops. *Heathrow Scientific*  
Temperature resistant from -196 °C to 80 °C.  
Easy to write on: PVC labels accept writing from most lab markers.  
Convenient: Dispensing box assists in labeling individual tubes used in small experiments.

Colour	Diam.	For vessels	PK	Cat. No.
	mm			
White	9.5	0.5 ml Tubes	1000	9.040 711
Blue	9.5	0.5 ml Tubes	1000	9.040 712
Green	9.5	0.5 ml Tubes	1000	9.040 713
Red	9.5	0.5 ml Tubes	1000	9.040 714
Yellow	9.5	0.5 ml Tubes	1000	9.040 715
Pink	9.5	0.5 ml Tubes	1000	6.267 506
Coffee	9.5	0.5 ml Tubes	1000	6.267 517
Orange	9.5	0.5 ml Tubes	1000	6.267 518
White	13.0	1.5/2.0 ml Tubes	1000	9.040 716
Blue	13.0	1.5/2.0 ml Tubes	1000	9.040 717
Green	13.0	1.5/2.0 ml Tubes	1000	9.040 718
Red	13.0	1.5/2.0 ml Tubes	1000	9.040 719
Yellow	13.0	1.5/2.0 ml Tubes	1000	9.040 720
Lavendel	13.0	1.5/2.0 ml Tubes	1000	6.287 530



## Cooling/Cryogenic accessories



### 1 Deep freeze labels Cryo-Babies®/Cryo-Tags®

Temperature resistant from -196 °C to +150 °C. All labels withstand freezer temperatures down to -196 °C (liquid and vapour phase nitrogen), boiling water baths, autoclaving and moderate ovens (150 °C). Chemically inert labels resist most organic solvents and caustic agents. They adhere to most plastics, glass and metals without cracking, peeling or degrading. Made with a flexible, polyolefin label material and acrylic adhesive. This unique combination expands and contracts together with temperature fluctuations resulting in a strong adhesive bond. Convenient dispensing box assists in labeling individual tubes used in small experiments. Easy to write on. PVC labels accept writing from most lab markers including solvent resistant pens.

Heathrow Scientific

Type	Colour	Dimensions (W x D) mm	For vessels	PK	Cat. No.
Cryo-Babies®	White	24 x 13	0.5 ml tubes	1000	<b>9.100 030</b>
Cryo-Babies®	White	33 x 13	1.5/2.0 ml tubes	1000	<b>9.100 031</b>
Cryo-Tags®	White	38 x 13	General application	1000	<b>9.100 032</b>

2



### 2 Deep freeze labels

Manufactured from polyfiber grade flexible paper with acrylic resin adhesive back. This unique combination expands and retracts together with temperature fluctuations and always guarantees a strong adhesive bond. Chemically inert, resists to water, moisture and most organic solvents and caustic agents. Can be used between -196 to +80 °C temperature range. Sticks to any clean surface including PTFE coated surfaces without cracking, peeling and degrading. Peels off without leaving any sticky residue. Recommended to be used on tube caps with different diameters. Supplied as white color or pack of 6 different colors matching the universal hazard color codes (yellow for chemical reactivity, blue for health hazards, green for safety, red for flammability, orange tape for biohazard and white for general use).

ISOLAB

Diam. mm	Colour	For vessels	PK	Cat. No.
9.5	white	0.5 ml Tubes	1000	<b>6.286 763</b>
9.5	yellow, blue, green, red, orange, white	0.5 ml Tubes	6000	<b>6.286 764</b>
13.0	white	1.5/2.0 ml Tubes	1000	<b>6.286 765</b>
13.0	yellow, blue, green, red, orange, white	1.5/2.0 ml Tubes	6000	<b>6.286 766</b>
19.0	white	15 ml Tubes	500	<b>6.286 767</b>
25.0	white	50 ml Tubes	500	<b>6.286 768</b>

3



### 3 Label Dispenser for Deep freeze labels

Perfect organizer for fast and efficient use of labels. Manufactured from clear acrylic and holds 6 label box. Drop the label box in the label dispenser and feed the paper through the slot. The writing surface enables easy and clean writing on the label. The sharp cutting edge helps to tear off the labels. A weighted base with nonskid pads prevents sliding or lifting. The article is delivered without pen.

ISOLAB

Type	PK	Cat. No.
Label Dispenser for Deep freeze labels	1	<b>6.286 769</b>

4



9.409 015

### LLG-Temperature block exact, aluminium

Suitable for both cooling and heating, universally usable, uniform temperature distribution within the block, ideal for all temperature-sensitive applications.

Aluminum blocks with conical compartments and closed bottom for easy and precise tempering of reaction tubes and PCR tubes. The precisely adapted shape of the borings and the closed bottom offer advantages compared with cylindrical drilled blocks with open bottom, such as much better heat transfer and temperature accuracy. Made of a special aluminum alloy with high thermal conductivity. Identical temperature conditions for all samples. Compact size, requiring little space. Suitable for 96-well plates, 8 or 12 strips and single tubes.

Ideal for working with 8- or 12-channel pipettes. Blocks for different tube sizes and combinations of tube sizes as indicated, all working steps in one block, holes closed at the bottom and tapered to fit perfectly the respective tube sizes and offer an optimum heat exchange.

5



9.409 017

Array	Dimensions (W x D x H) mm	PK	Cat. No.
96 x 0.2 ml PCR tubes + 6 x 1.5 ml tubes	118 x 89 x 24	1	<b>9.409 015</b>
36 x 0.5 ml tubes + 11 x 1.5 ml tubes	180 x 79 x 24	1	<b>9.409 016</b>
24 x 1.5 ml tubes	115 x 89 x 34	1	<b>9.409 017</b>
24 x 2.0 ml tubes	115 x 89 x 34	1	<b>9.409 018</b>
25 x 2.0 ml Cryogenic tubes with round bottom	197 x 99 x 32	1	<b>9.409 006</b>
12 x 15.0 ml Centrifuge tubes	75 x 89 x 38	1	<b>9.409 008</b>

➔ Cryogenic items - please see our chapter 7.

### Cryovial racks Nalgene™, PC



Thermo Scientific

Autoclavable. Space-saving. Choice of sizes to hold 25 or 50 cryovials of 1.2, 2.0 or 5 ml capacities. With moulded identification numbers and letters. One-handed operation possible.



9.400 958

Width	Length	Height	Aperture array qty.	Colour	PK	Cat. No.
mm	mm	mm				
102	197	28	5 x 10	white	1	9.400 944
102	197	22	5 x 5, staggered	blue	1	9.400 958

### 2 Floating cryovial racks Nalgene™, Type 5974, PP

For 0.5 to 2.0 ml test tubes and cryovials. Racks will float with a full load of filled tubes. With moulded identification numbers and letters.

Thermo Scientific



Type	For tubes	Description	Colour	Dimensions (W x D x H)	Array	PK	Cat. No.
	ml			mm			
5974	1.0/1.2/1.5/2.0	Square	white	103 x 103 x 65	4 x 4	1	9.400 982
5974	1.0/1.2/1.5/2.0	Circular	white	66 dia.	8	4	9.400 983
5974	1.0/1.2/1.5/2.0	Circular	white	96 dia.	20	4	9.400 984

### 3 Floating Tube Racks, PE

Polyethylene foam. Resist water absorption so racks can be washed and reused. Ideal for floating tubes in water baths, tubs, or beakers. Racks include detachable carrying handles, to lift samples out of baths easily.

Heathrow Scientific

Type	For tubes	Colour	Array	PK	Cat. No.
	ml				
Diamond	50	green	4	5	6.238 546
Parallelogram	15	blue	8	5	6.238 547
Rectangle	1.5 to 2.0	yellow	24	5	6.238 545
Round	0.2/0.5/1.5 to 2	blue	18	5	6.240 378



### 4 Cryogenic storage boxes Transformer™ Cube, PP



Heathrow Scientific

For storage of large samples or 15 and 50 ml tubes. Robust, rugged polypropylene construction complete with two Snap-In grids for 16 x 15 ml and 9 x 50 ml tubes. Holds tubes securely upright in deep grid wells. Locate tubes easily with numbering of inserts on lid, imprinted grid and first tube orientation. Use without grids for larger sized product storage. Fill with ice and use as a temporary low temperature workstation. Autoclavable. Dimensions: 125 x 125 x 129 mm. For temperatures from -80 to 121 °C. Purple box with clear lid.



Type	PK	Cat. No.
Box with 2 inserts	1	6.243 251

➔ Further Racks - please see page 33.