CELL CULTURE
MOLECULAR BIOLOGY

deltalab

Cell and Tissue Culture Multiwell Plates

Ideal for cell growth and cell yields on multiple, comparative and other analysis. Single position lid reduces the risks of cross-contamination and handling mistakes. Wells are labelled with alphanumeric codes for easy identification. Suitable for all common instruments and automation.

Lid included. Individually packaged.

Sterilized by radiation. Non-pyrogenic. DNase/RNase-free.

code	description	n° of wells	surface cm^2	sterile	case quantity	case weight	case volume
D200001	Surface treated	6	9.6	STERILE R	2 x 50 x 1	6.55	0.075
D200002	Surface treated	12	3.85	STERILE R	2 x 50 x 1	8.80	0.075
D200003	Surface treated	24	1.93	STERILE R	2 x 50 x 1	8.55	0.075
D200004	Surface treated	48	0.83	STERILE R	2 x 50 x 1	8.45	0.075
D200005	Surface treated	96	0.33	STERILE R	2 x 50 x 1	8.35	0.075

Cell and tissue culture flasks

Cell and Tissue Culture Flasks are perfect for cell growth and cell yields aim on little and medium input volume. Available in surface treated and non treated. Flacks surface is flat and free from striation to maximize usable growth area. Innovative angled neck design offers good pipet and cell scraper access in. Both flask sides have engraved graduation. Strict integrity tested.

Sterilized by radiation. Non-pyrogenic. DNase/RNase-free.

	code vented	code not vented	description	max. vol. ml	surface cm^2	sterile	case quantity	case weight	case volume
suspension	D200020	D200010	non treated	25	12.5	STERILE R	4 x 5 x 10	3.00	0.030
	D200021	D200011	non treated	50	25	STERILE R	4 x 5 x 10	5.40	0.040
	D200022	D200012	treated	25	12.5	STERILE R	4 x 5 x 10	3.00	0.030
adhesion	D200023	D200013	treated	50	25	STERILE R	4 x 5 x 10	5.40	0.040
	D200024	D200014	treated	250	75	STERILE R	4 x 5 x 5	7.40	0.076
	D200025	D200015	treated	600	182	STERILE R	2 x 4 x 5	6.30	0.060

Cell and Tissue Culture Dishes

Cell and tissue culture dishes are ideal containers for cell growth and yields point to a small and medium volume of input, and are also useful in sample separation, pretreatment, storage, etc.

Surface treated. The uniform thickness of the flat bottom wall guarantees a bottom without distortion.

Sterilized by radiation. Non-pyrogenic. DNase/RNase-free.

	code	diameter mm	cell growth area cm^2	sterile	case quantity	case weight	case volume
P35	D200035	33.2	8.5	STERILE R	96 x 10	5.00	0.028
P60	D200060	53.3	21.2	STERILE R	60 x 10	10.50	0.050
P100	D200100	88.5	60.8	STERILE R	30 x 10	10.08	0.076
P150	D200150	136.1	143.0	STERILE R	12 x 10	8.20	0.082

Cell Scrapers (normal and rotable)

Normal version and rotating version

Material: blades/PE, handle/ABS

Special developed to make the process of scraping off and collecting cells more easier and effective.

Free rotating blade to twist to the desired direction. Total access to all corner. Small raised knobs on the handle

Individually packaged.

Sterilized by radiation. Non-pyrogenic. DNase/RNase-free.

code	description	Length cm	sterile	case quantity	case weight	case volume
D200034	Cell scrapper	25	STERILE R	100	1.3	0.01
D200030	Rotable cell scrapper	30	STERILE R	150	2.5	0.019

Cell strainer

Cell strainers are manufactured from a strong nylon mesh with evenly spaced mesh pores and gamma resistant. These cell strainers are sterile, rapid, easy-to-use devices for isolating primary cells to consistently obtain a uniform single-cell suspension from tissues.

Protect your valuable flow cytometry and cell sorting instrumentation by reliably removing clumps and debris from cell suspensions and clinical samples prior to analysis. Improved uniformity of single cell suspensions.

Made of a strong nylon mesh with evenly spaced mesh pores. The extended lip on the strainer enables aseptic handling with forceps

Ready-to-use. **Individually packaged.**

Sterilized by radiation. Non-pyrogenic. DNase/RNase-free.

code	capacity (µm)	colour	sterile	case quantity	case weight	case volume
D200031	40	blue	STERILE R	4 x 50	1.32	0.018
D200032	70	natural	STERILE R	4 x 50	1.32	0.018
D200033	100	yellow	STERILE R	4 x 50	1.32	0.018

Vacuum filtration

Vacuum filters are very useful in large volume samples separation and purification. Available with 5 membrane sorts of PVDF and PES. 2 membrane pore sizes of 0.22µm and 0.45µm. 4 volumes size of 150, 250, 500 and 1000ml

Individually packaged.
Sterilized by radiation. Non pyrogenic. DNase/RNase-free.

code	funnel capacity	pore size (µm)	membrane	diameter (mm)	sterile	case quantity	case weight	case volume
D300000	1,000	0.22	PVDF	91	STERILE R	12 x 1	3.65	0.066
D300001	500	0.45	PVDF	75	STERILE R	12 x 1	3.65	0.066
D300002	150	0.22	PES	50	STERILE R	12 x 1	3.65	0.066
D300003	250	0.22	PES	50	STERILE R	12 x 1	3.65	0.066
D300004	500	0.22	PES	75	STERILE R	12 x 1	3.65	0.066
D300005	1,000	0.22	PES	91	STERILE R	12 x 1	3.65	0.066

15 ml and 50 ml centrifugal tubes

Made of polypropylene, suitable for both clinical and research applications. **DNAsa, RNAsa and pyrogen free.** They are also free from natural rubber and heavy metals. Centrifugation resistance: **14.000 xg**, except code **429931: 7.500 xg** and codes **429950, 429951: 3.500 xg**
See more technical information on page 37.

code	description	presentation	sterile	case weight	case volume	cases pallet
15 ml tubes						
429940	non-skirted tube	500 tubes in bulk	no	500	4.50	0.034
429945	non-skirted tube	20 bags of 25 tubes	no	500	4.50	0.0281
429942	non-skirted tube	20 bags of 25 tubes	STERILE R	500	4.35	0.04
50 ml tubes						
429930	non-skirted tube	20 bags of 25 tubes	no	500	7.70	0.09
429931	non-skirted tube	20 bags of 25 tubes	STERILE R	500	7.44	0.108
429950	skirted tube	20 bags of 25 tubes	no	500	8.80	0.09
429951	skirted tube	20 bags of 25 tubes	STERILE R	500	8.80	0.108

Sterile culture tubes in polystyrene

Tubes supplied with either a two position ribbed polyethylene cap, which can be left loose for aerobic work or sealed for anaerobic cultures.
They are biologically inert, exempt from mold release agents, and withstand up to **1,400 xg** and **70 ºC.**
Packaged in self-standing resealable zip-lock bags of 125 units.

Loose position for aerobic work

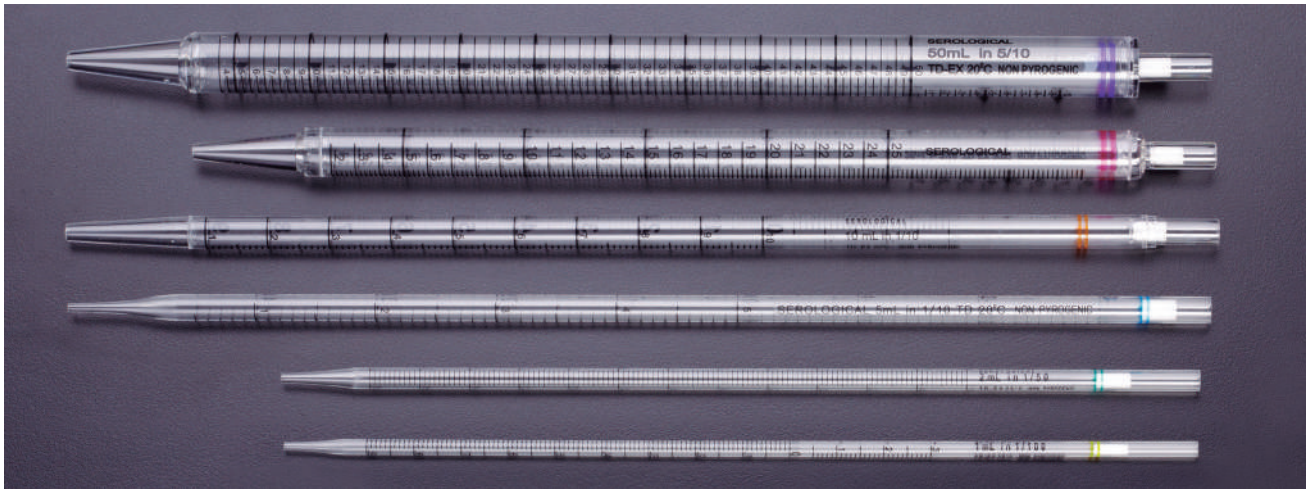
PosSealed position for anaerobic cultures

code	dimensions mm	volume	case quantity	case weight	case volume
300807	12 x 75	5ml	8 x 125	4.24	0.033
300808	17 x 100	14ml	8 x 125	7.14	0.060

Sterile serological pipettes

Made of glass polystyrene. Single use only. Serological pipettes have an accuracy of +/- 2% at full scale. **Sterilized by radiation**. Manufactured in one, two or three pieces depending on the volume. **DNAse and RNAse free**. **BSE / TSE free**. Pyrogenic, non-cytotoxic and non-hemolytic.
See more technical information on page 41.

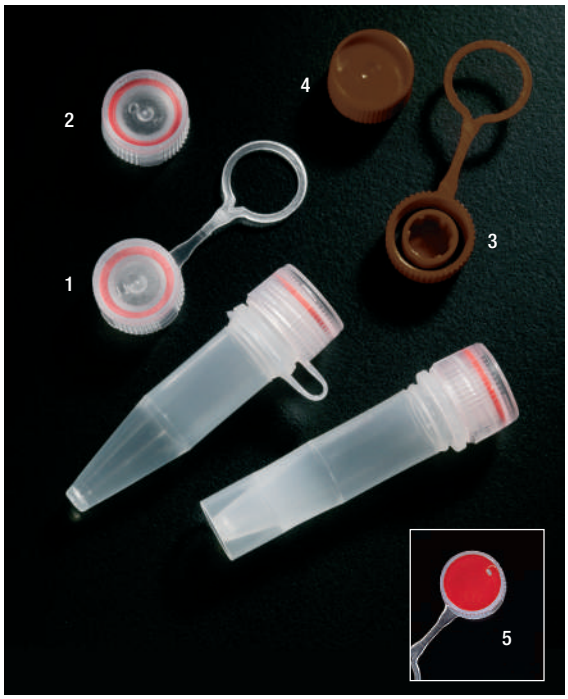
code	capacity ml	presentation	cotton colour	tip	graduation ml	negative graduation ml	total capacity ml	case quantity	case weight	case volume
900030.C	1	1 peel-pack	●	A	0/0.9	until –0.3	1.3	500	2.59	0.019
900031.C	1	bag of 25	●	A	0/0.9	until –0.3	1.3	40 x 25	4.02	0.019
900130.C	1	1 peel-pack	●	C	0/0.9	until –0.3	1.3	500	2.59	0.019
900032.C	2	1 peel-pack	●	A	0/1.8	until –0.6	2.6	500	3.74	0.019
900033.C	2	bag of 25	●	A	0/1.8	until –0.6	2.6	40 x 25	6.70	0.019
900034.C	5	1 peel-pack	●	A	0/4	until –3	8	200	2.42	0.014
900038.C	5	bag of 25	●	A	0/4	until –3	8	20 x 25	6.38	0.019
900144.C	5	1 peel-pack	●	B	0/4	until –3	8	200	2.42	0.014
900036.C	10	1 peel-pack	●	A	0/9	until –3	13	200	2.73	0.014
900037.C	10	bag of 25	●	A	0/9	until –3	13	16 x 25	5.5	0.019
900136.C	10	1 peel-pack	●	C	0/9	until –3	13	200	2.32	0.013
900146.C	10	1 peel-pack	●	B	0/9	until –3	13	200	3.82	0.014
900041.C	25	1 peel-pack	●	A	0/23	until –8	33	150	3.07	0.019
900043.C	50	1 peel-pack	●	A	0/46	until –10	60	100	2.54	0.019



Screw thread microtubes

Made of **autoclavable** polypropylene, they can be used at extreme temperatures from **–190 ºC to +121 ºC**. Two versions available: in transparent polypropylene, or opaque brown **(UV resistant**, designed to be used with light sensitive samples). **Certified RNAse, DNAse and pyrogen free.** Tubes and caps can be centrifuged at **17,000 xg.** Caps are supplied separately, see below. **Dimensions:** 11 x 44 mm.

mod.	code	volume ml	skirt	case quantity	case weight	case volume
Transparent polypropylene						
1	**409110.1**	0.5	yes	1,000	1.47	0.010
2	**409110.2**	1.5	yes	1,000	1.45	0.009
3	**409110.3**	1.5	no	1,000	1.13	0.007
4	**409110.4**	2.0	yes	1,000	1.30	0.013
Brown polypropylene						
5	**409113.1**	0.5	yes	1,000	1.54	0.009
6	**409113.2**	1.5	yes	1,000	1.34	0.009
7	**409113.3**	1.5	no	1,000	1.14	0.007
8	**409113.4**	2	yes	1,000	1.34	0.009



Caps for screw thread microtubes

Made of polypropylene.
Caps are available either with an attachment loop or without loop. Both models have a sealing O-ring (red) of silicone to ensure a positive leakproof seal.
For sample identification, colour coding inserts can be placed upon caps (made of polypropylene).
Cap dimensions: 13 x 8 mm.

mod.	code	description	case quantity	case weight	case volume
Transparent polypropylene					
1	**409007.N**	cap with loop	1,000	0.41	0.003
2	**409008.N**	cap without loop	1,000	0.40	0.002
Brown polypropylene					
3	**409007.M**	brown cap with loop	1,000	0.45	0.003
4	**409008.M**	brown cap without loop	1,000	0.55	0.010
Inserts					
5	**409111R**	red insert	500	0.06	0.005

Screw cap microtubes, with cap. Sterile

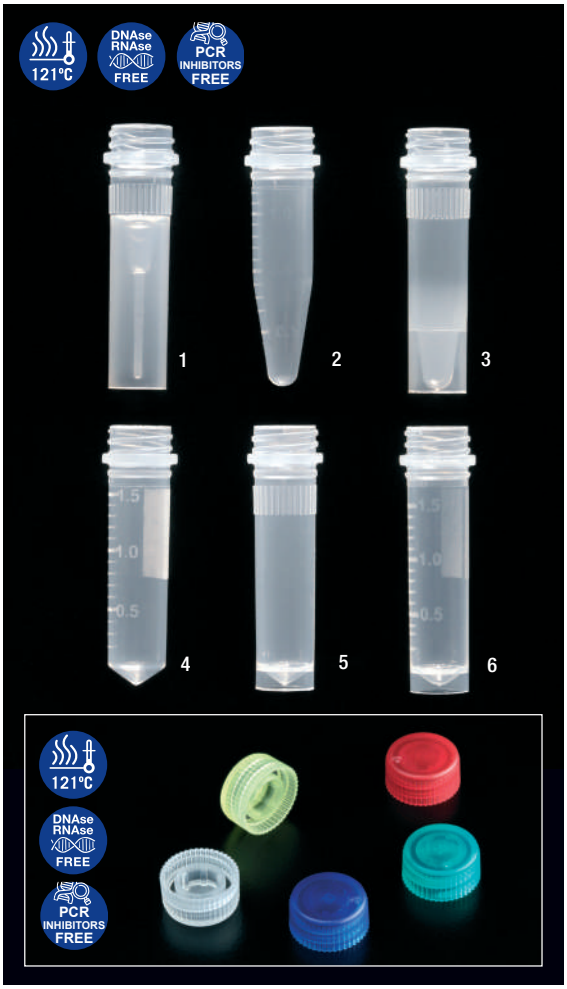
Tubes and caps in medical grade, transparent polypropylene.
The cap embodies a non-reactive ethylene-propylene o-ring.
Suitable for **autoclave, liquid nitrogen (gaz) and boiling processes**.
Perfect for long term storage. Withstand temperatures from **–190 ºC**.
DNAse, RNAse, DNA, and PCR inhibitors free.
Centrifugation Resistance: **20,000 xg.**
Graduated models feature a frosted area for writing.
The non-graduated model incorporates an external grip for an easy handling.
Microtubes are supplied capped, in bags of 50 units.
Dimensions: 44.45 x 12.95 mm

code	volume ml	skirted	sterile	graduation	case quantity	case weight	case volume
409115/4	0.5 ml	yes	STERILE R	✗	50 x 50	5.90	0.030
409115/2	1.5 ml	no	STERILE R	✓	50 x 50	5.90	0.030
409115/6	2 ml	yes	STERILE R	✓	50 x 50	5.90	0.030
409115/3	2 ml	no	STERILE R	✓	50 x 50	5.90	0.030

Screw thread microtubes

Made of transparent polypropylene. Suitable for use in liquid nitrogen, **autoclave** and for boiling applications, and can be used at temperatures down to **–190 °C**. Products ideal for long term sample storage. **Certified RNAse, DNAse and PCR inhibitors free**. Withstand centrifugation at **20,000 xg**. The codes **409111/4**, **409111/5** and **409111/6**, with external moulded slots for better handling with gloves. **Dimensions:** 10.3 x 44.5 mm (except code **409111/2**: 10.3 x 43.6 mm). Caps are supplied separately, see below.

mod.	code	description	skirted	graduation	case quantity	case weight	case volume
1	**409111/4**	0.5 ml	yes	✗	500	0.78	0.005
2	**409111/2**	1.5 ml	no	✓	500	0.61	0.005
3	**409111/5**	1.5 ml	yes	✗	500	0.73	0.005
4	**409111/3**	2.0 ml	no	✓	500	0.71	0.005
5	**409111/6**	2.0 ml	yes	✗	500	0.76	0.005
6	**409111/7**	2.0 ml	yes	✓	500	0.73	0.005



Caps for screw thread microtubes

Made of medical grade polypropylene.
Feature an internal O-ring to ensure leakproof seal.
Certified RNAse, DNAse and PCR inhibitors free.
Dimensions 13.0 x 6.0 mm.

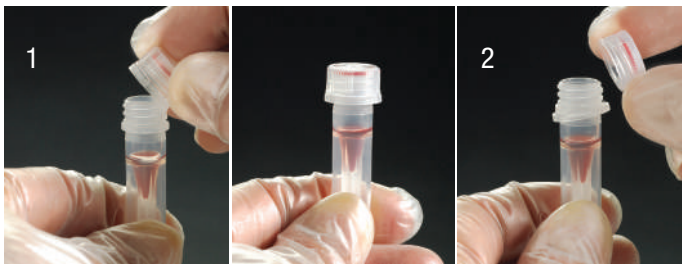
code	colour	case quantity	case weight	case volume
409112/0	natural	500	0.019	0.0009
409112/1	blue	500	0.019	0.0009
409112/2	green	500	0.019	0.0009
409112/4	red	500	0.019	0.0009
409112/6	yellow	500	0.019	0.0009

Screw thread tamper evident microtubes

Microtubes and caps are made of autoclavable ultra clear polypropylene. Ribbed cap with internal silicone O-ring for a positive **leakproof seal.** Super fast ¼ turn thread design. **Tamper evident** seal which notices if microtube has been opened. Used on:

- Test of fertility and DNA testing
- Packaging of diagnostic kits and reagents
- Forensic laboratories

They can be used at extreme temperatures from **–196 °C** to **121 °C**.
Rnase, Dnase and Pyrogen free.
Resistance to centrifugation: **17,000 xg.**
Microtube dimensions: 11 x 44 mm.
Cap dimensions (with tamper-evident ring): 15 x 9 mm



1. Screw cap until locking ring clicks over serrated tube neck.
2. Contents are now protected until cap is removed and tamper-evident ring is detached.

mod.	code	volume ml	case quantity	case weight	case volume
1	**409110.4T**	2	1.000	2.06	0.013
2	**409110.2T**	1.5	1.000	2.06	0.013

Human DNAsa, RNAsa and DNA free certified swabs, steriles

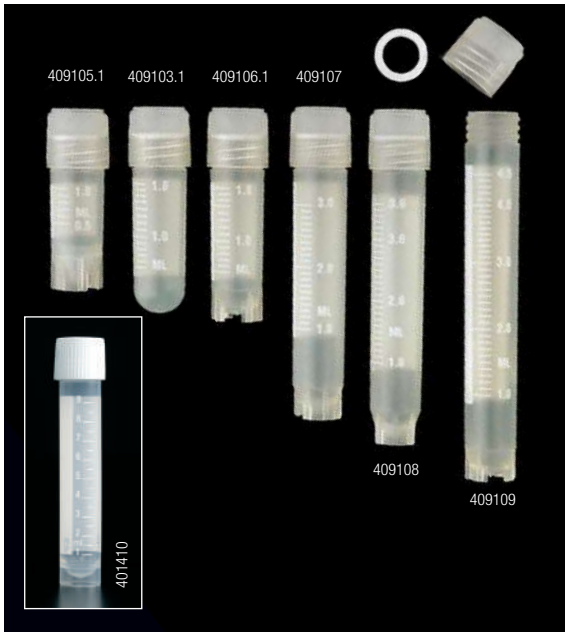
Human DNA free Certified. The swab is supplied in a polypropylene tube, which protects the sample up to the laboratory prior to its analysis.
The stick of the swab is made of polystyrene while the head is produced with viscose or polyester according to the code.
The tube is labeled indicating code, description, lot, expiry date and providing an identifying area to note down collection details (site, date, etc.).
Moreover, the label seals the tube with the cap of the swab, acting like a tamper evident system.

Sterilised by ethylene oxyde.

DNAse RNAse FREE

code	description	selling unit	case quantity	case weight	case volume
300252DNA	polystyrene + viscose	500	4 x 500	14.20	0.070

Expiry date: 48 months.



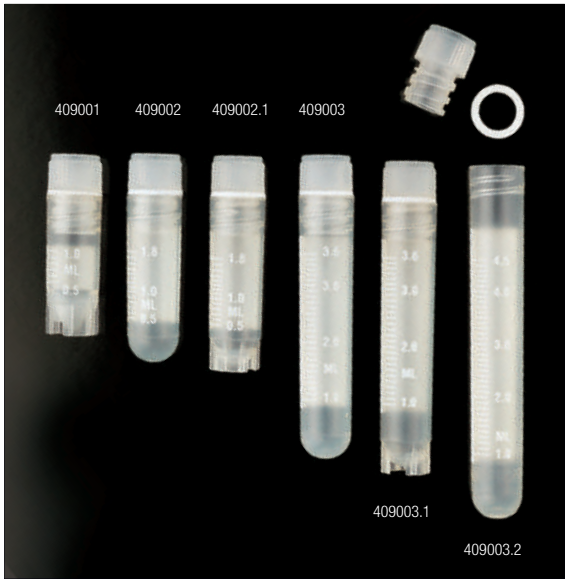
Cryovials with external threads

Non skirted versions withstand centrifugation up to **14,000 xg**.

121°C DNAse RNAse FREE

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
409105.1	1.2	yes	12.5 x 42	10 x 100	2.50	0.014
409103.1	2.0	no	12.5 x 47	10 x 100	2.70	0.017
409106.1	2.0	yes	12.5 x 49	10 x 100	2.68	0.015
409107	3.0	yes	12.5 x 71	10 x 100	3.88	0.023
409108	4.0	yes	12.5 x 77	10 x 100	3.90	0.028
409109	5.0	yes	12.5 x 92	10 x 100	4.60	0.023
401410	10.0	yes	17.0 x 84	10 x 50	2.80	0.020

* Capped.



Cryovials with internal threads

Non skirted versions withstand centrifugation up to **14,000 xg**.

See Colour coded inserts at page 166

121°C DNAse RNAse FREE

code	volume ml	skirt	dimensions mm*	case quantity	case weight	case volume
409001	1.2	yes	12.5 x 41	10 x 100	1.94	0.015
409002	2.0	no	12.5 x 48	10 x 100	2.22	0.016
409002.1	2.0	yes	12.5 x 49	10 x 100	2.24	0.015
409003	4.0	no	12.5 x 70	10 x 100	3.79	0.028
409003.1	4.0	yes	12.5 x 72	10 x 100	3.90	0.028
409003.2	5.0	no	12.5 x 90	10 x 100	4.60	0.024

* Capped.

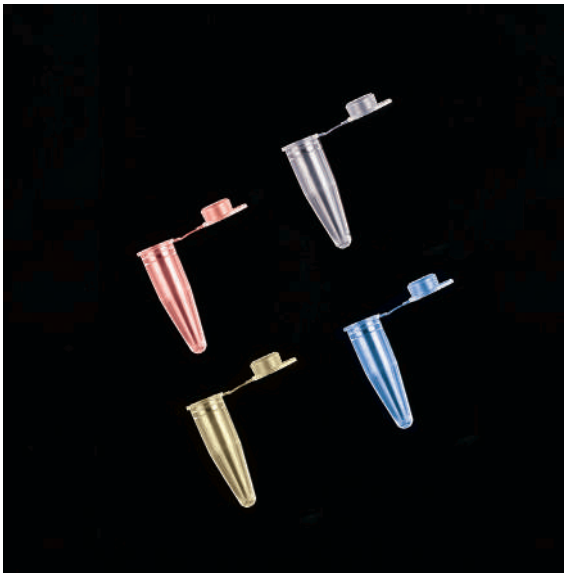
0.2 ml Real Time PCR tubes

Tubes made of polypropylene, featuring attached hinged caps.
Flat caps are easily pierceable and offer optical quality, thus allowing their application in **Real Time PCR.**
Available in strips of 8 tubes (see code **4095.1NP** in the following page).
Certified **RNAse, DNAse and PCR inhibitors free.**

code	description	case quantity	case weight	case volume
4094.5N	PCR 0.2 ml QPCR tube	1,000	0.25	0.003

0.2 ml PCR tubes

Tubes made of polypropylene, featuring attached hinged caps.
Caps are flat and easily pierceable.
See strips of these tubes on the following page (codes **4094.3N** and **4094.4N**).
Certified **RNAse, DNAse and PCR inhibitors free.**



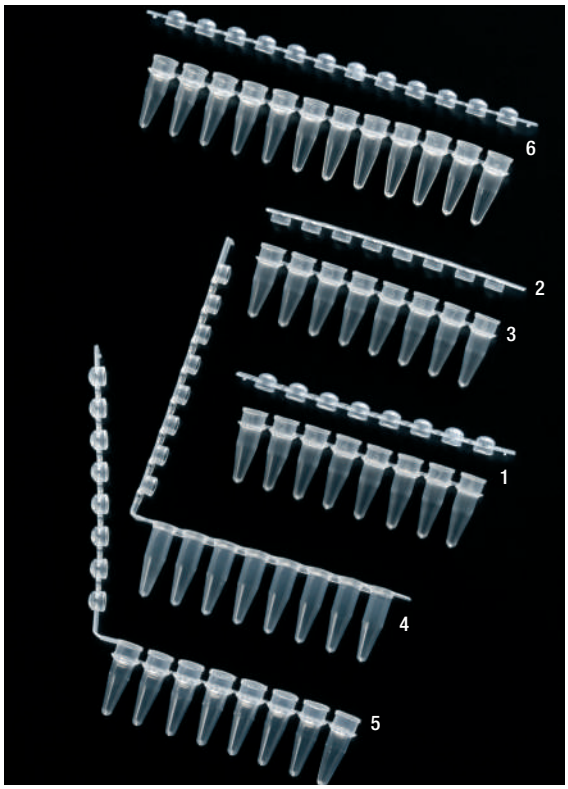
code	colour	case quantity	case weight	case volume
4094.1N	natural	1,000	0.24	0.003
4094.1A	blue	1,000	0.24	0.003
4094.1R	red	1,000	0.24	0.003
4094.1AM	yellow	1,000	0.24	0.003

Ask for minimum quantity and delivery time for other colours.

0.2 ml PCR tubes

Made of polypropylene.
Tubes with attached domed cap.
Certified **RNAse, DNAse and PCR inhibitors free.**

code	description	colour	case quantity	case weight	case volume
4095.9N	individual tube with cap	natural	1,000	0.25	0.003



0.2 ml PCR tubes in strips

Made of natural colour polypropylene. Different models available:
- Strip of 8 or 12 tubes with its corresponding strip of 8 or 12 domed caps.
- Strip of 8 tubes with its attached hinged strip of domed caps.
- Strip of 8 tubes with its attached hinged strip of flat caps, suitable for **Real Time PCR.**
- Strip of 8 tubes.
- Strip of 8 flat caps, suitable for **Real Time PCR.**

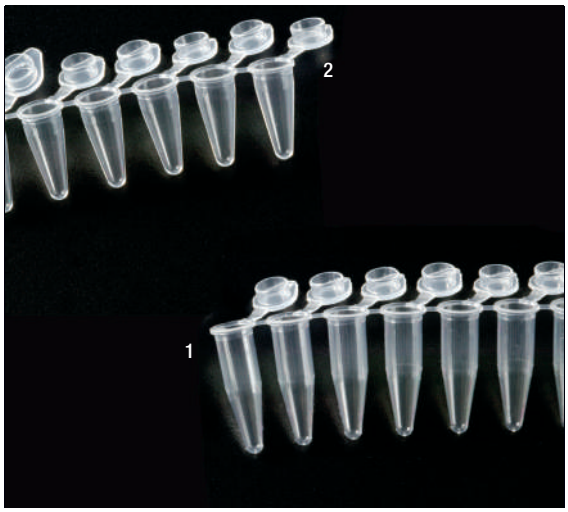
Cap and tube strips allow easy handling and inventory of tubes and caps. Cap strips prevent cross-contamination from tube to tube.
Code **4095.7N** is also suitable for plates.**Certified RNAse, DNAse, pyrogen and PCR inhibitors free.**

QPCR PCR DNAse RNAse FREE PCR INHIBITORS FREE

2, 3, 4

	code	description	case quantity	case weight	case volume
1	**4095.2N**	8 tube strip + 8 domed cap strip	125 strips	0.30	0.0036
2	**4095.7N**	strip of 8 flat caps	125 strips	0.07	0.0008
3	**4095.6N**	8 tube strip	125 strips	0.22	0.0028
4	**4095.1NP**	8 tube strip attached to 8 flat cap strips	125 strips	0.23	0.0036
5	**4095.1N**	8 tube strip attached to 8 domed cap strips	125 strips	0.23	0.0036
6	**4095.4N**	12 tube strip attached to 12 domed cap strips	80 strips	0.20	0.0028

Ask for another colours.

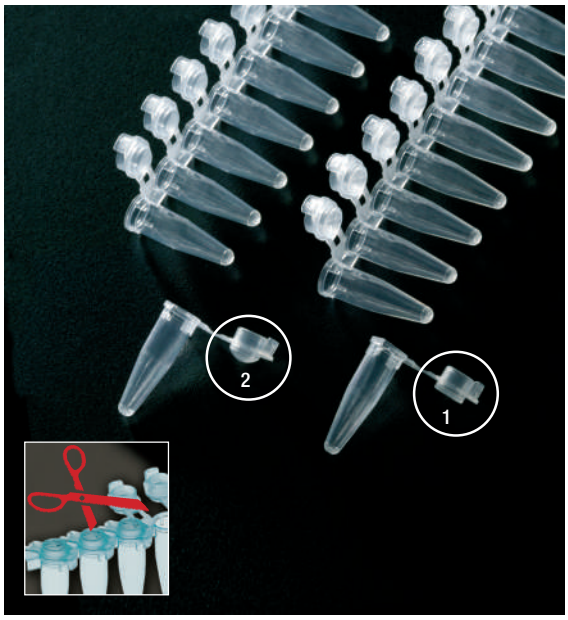


0.2 ml PCR tubes in strips

Tubes made of polypropylene, featuring attached hinged caps.
Suitable for **Real Time PCR**.
See individual tubes on page 67 (**4094.1N**). Caps are flat and easily pierceable.
In bags of 10 strips.
Available in standard height (code **4094.3N**) and low profile (code **4094.4N**) that minimizes the effects of condensation and it allows working with small samples even less than 20 µl. **Certified RNAse, DNAse, pyrogen and PCR inhibitors free.**

QPCR PCR DNAse RNAse FREE PCR INHIBITORS FREE

	code	description	case quantity	case weight	case volume
1	**4094.3N**	strip of 8 tubes and 8 attached caps	120 strips	0.27	0.0036
2	**4094.4N**	strip of 8 tubes and 8 attached caps **low profile**	120 strips	0.22	0.0028



0.2 ml PCR tubes in strips

Made of polypropylene.
The strip includes 8 integral 0.2 tubes with ultra thin sidewalls and bottoms with individually attached caps. Available with either **flat (needle pierceable) or dome-topped individually** attached hinged caps.
Every cap embodies a shield in order to prevent contamination when being opened.
While easily opened and closed with one hand, their positive sealing will fully protect the contents from evaporation during the whole thermal cycle. These strips can be cut to any length while each tube has its own attached cap.
Certified RNAse, DNAse and pyrogen free.

PCR DNAse RNAse FREE

	code	cap	case quantity	case weight	case volume
1	**4096.2N**	flat	125 strips	0.40	0.055
2	**4096.3N**	domed	125 strips	0.43	0.003

Real Time PCR

Polimerase Chain Reaction is one of the most common techniques in every lab where Molecular Biology is being used. Its applications comprise **Diagnostics, Genetic and Prenatal testing, Tissue Typing, Forensics, Pharmacological evaluation,** among others**.**

One of the **most useful PCR techniques** is the **Real Time PCR,** also known as **Quantitative PCR (QPCR). Its main advantage in front of standard PCR is that it saves time as the quantification is being held during DNA amplification.** While standard PCR needs a quantifying process after DNA amplification, **QPCR gives results in real time.**

PCR standard consumables are mainly made of transparent polypropylene. After some years of experience, laboratory technicians have found that **crosstalking among transparent wells may affect the real time quantification**. **Opaque white wells and tubes** have proved to avoid this well-to-well crosstalking, thus **ensuring an exact** and **reliable quantification**.

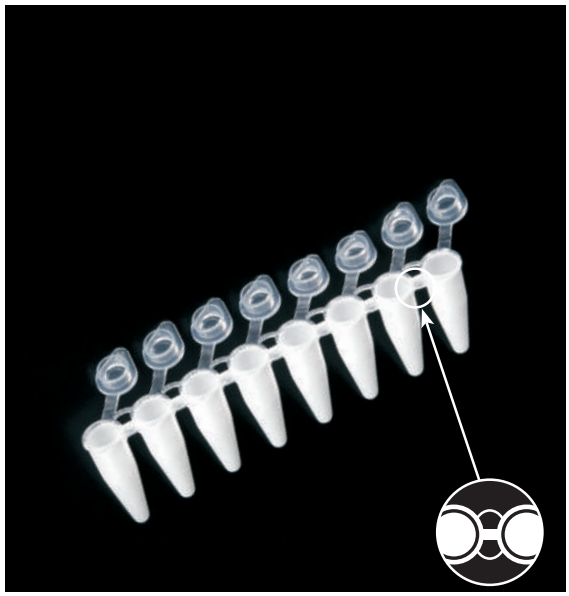
Opace wells also allows luminosity absorption.

The following pages include the newest innovations in this brand new area; like **bi-mould technologies**, which allow the manufacture of an opaque tube attached to an optically clear cap.

White well technology is available in both strips of tubes or also 96 well plates.

0.2 ml, Real Time PCR tubes in strips

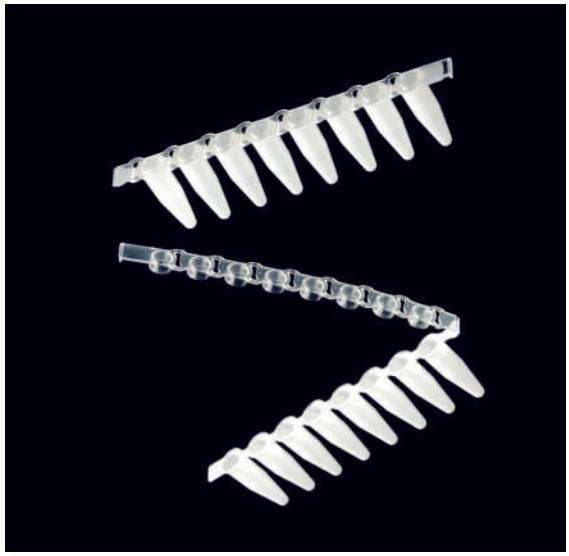
Tubes made of polypropylene.
Strip of 8 tubes, each one featuring an attached flat cap.
Strips are manufactured by biomaterial molding, so the tubes are made of opaque white PP, while caps are compounded of transparent, optically clear PP.
Opaque white tubes perform the highest performance in **Real Time PCR**, as they avoid crosstalking between wells.
Specially conceived for **Real Time PCR**.
Caps are easily pierceable.
In bags of 10 strips.
Certified RNAse, DNAse and PCR inhibitors free.
Autoclavable at 121°C.



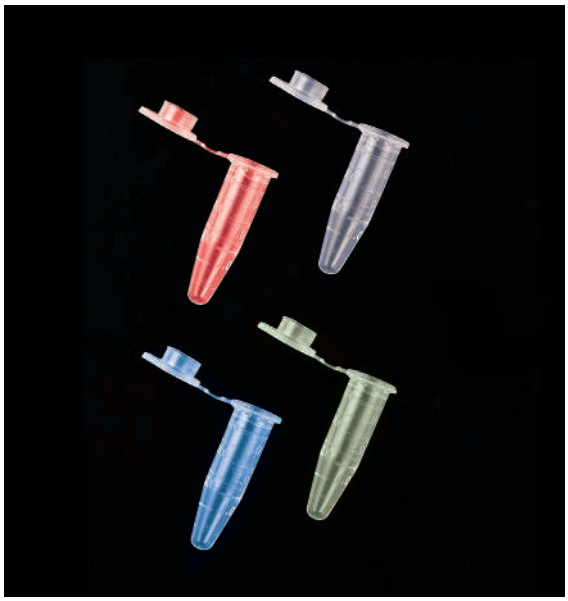
code	description	case quantity	case weight	case volume
4094.5BP	strip of 8 white 0.2 ml QPCR tubes and 8 attached caps	120	0.27	0.004

0.2 ml, Real Time PCR tubes in strips

Tubes made of polypropylene.
Strip of 8 tubes, featuring an attached strip of 8 flat caps. Strips are manufactured by biomaterial molding, so the tubes are made of opaque white PP, while caps are compounded of transparent, optically clear PP. Opaque white tubes perform the highest performance in Real Time PCR, as they avoid crosstalking between wells. Specially conceived for **Real Time PCR.**
Caps are easily pierceable.
Certified RNAse, DNAse, pyrogen and PCR inhibitors free.
Autoclavable at 121°C.



code	description	case quantity	case weight	case volume
4095.1BP	strip of 8 white 0.2 ml QPCR tubes and 8 caps	125	0.23	0.004



Graduated 0.5 ml PCR tubes

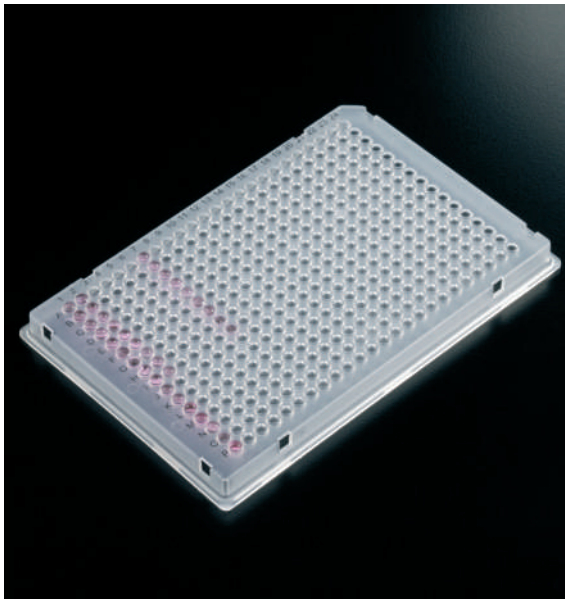
Made of **autoclavable** polypropylene.
Attached hinged caps are flat and easily pierceable.
Tubes are easily opened and closed with one hand.
Tubes have moulded-in graduations in 0.1 ml increments from 0.1 up to 0.6 ml, and a frosted panel on their side for writing or labelling.
Certified RNAse, DNAse and pyrogen free.

code	colour	case quantity	case weight	case volume
4094.2N	natural	1,000	0.38	0.005
4094.2AM	yellow	1,000	0.38	0.005
4094.2A	blue	1,000	0.38	0.005
4094.2R	red	1,000	0.38	0.005

Graduated 0.5 ml PCR tubes

Same features as the above tubes, but with a domed cap.

code	colour	case quantity	case weight	case volume
4095.5N	natural	1,000	0.46	0.005



384 wells plate skirted

Made of transparent polypropylene. 384 wells plate.
Each well has a capacity of 50 µl.
A low rim around the top of each well helps to prevent accidental cross-contamination
All wells are thin walled for an excellent thermal transfer.
Orientation cut is at position A 24 (upper right).
A black printed alphanumeric grid helps sample identification.
Suitable for **PCR** and **real time PCR (QPCR)**.
Dimensions according to the **SBS** standard.
RNAse, DNAse, DNA and PCR inhibitors free.

code	description	case quantity	case weight	case volume
900384	PCR 384 PLATE	10 x 10	3.20	0.026

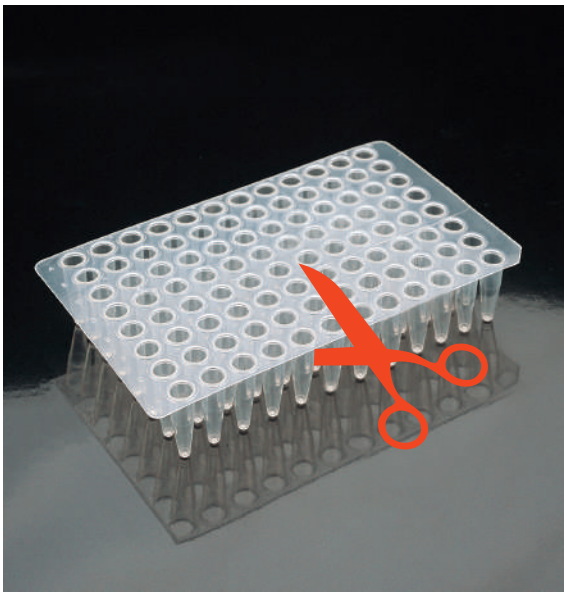
Minimum order quantity: 10

PCR Plates – COMPATIBILITY CHART Well Shape			900111	900110 unskirted	900122 semi skirt	900112 semi-skirt	900113B semi skirt	900123 skirted	900384 skirted	9000098 unskirted	900095 white, skirted 900093 black, skirted
Standard well. (Overall height approx. 21 mm, max. capacity approx. 350 µl)			●		●					●	
Low profile well. (Overall height approx. 16 mm, max. capacity approx. 200 µl)				●		●	●	●	50 µl		●
AMERSHAM	Thermal Cyclers	MegaBace 500						●			●
		MegaBace 1000						●			●
		MegaBace 4000							●		
APOLLO BRAND	Thermal Cyclers	ATC401	●							●	●
APPLIED BIOSYSTEMS	Thermal Cyclers	GeneAmp® 2700	●		●				●	●	
		GeneAmp® 2720								●	
		GeneAmp® 9600	●		●					●	
		GeneAmp® 9700	●		●					●	●
		GeneAmp® 9800 FAST BLOCK				●					
		Veriti 0,1 ml				●					
		Veriti 0,2 ml			●						
		Veriti 384							●		
	"Real Time" Cyclers	5700	●		●						
		PRISM 7000	●		●					●	
		7300	●		●					●	
		7500	●		●					●	
		7500 "Fast"				●					
		7700	●		●					●	
		7900							●	●	
		7900HT Fast	●			●					
		7900HT Standard 96									
		7900HT, 384							●		
		Step one / Step One Plus		●		●					
		ViiA7™				●			●	●	
	Sequencers	PRISM 310				●				●	
		PRISM 3100			●					●	
		3130 (XL)			●					●	
		3700 DNA			●				●	●	
		PRISM 3730 (XL)			●					●	
BECKMAN	Sequencers	CEQ	●								
BIOMETRA	Thermal Cyclers	Uno	●	●	●			●		●	●
		Uno II	●	●	●				●	●	
		T1 Thermal Cycler	●	●	●			●	●	●	●
		Tgradient	●	●	●					●	●
		Trobot	●	●	●			●	●	●	●
		TProfessional	●	●				●	●	●	●
BIO-RAD/MJ RESEARCH	Thermal Cyclers	C1000/S1000	●	●	●			●	●	●	●
		DNA Engine family	●	●	●			●	●		
		Dyad/Dyad Disciple	●	●	●			●	●		
		Gene cycler	●								
		iCycler	●		●			●		●	
		Mini Gradient	●	●							
		MyCycler	●							●	
		Personal	●		●						
		PTC-100	●	●	●			●	●	●	●
		PTC-200	●	●	●			●	●	●	●
		PTC-221								●	●
		PTC-225 Tetrad	●	●	●			●	●	●	●
	"Real Time" Cyclers	CFX384™							●		
		CFX96™						●			●
		Chromo4™		●				●			●
		iCycler™	●		●				●	●	
		iq™4 / iq™5	●		●					●	
		MiniOpticon™								●	
		MyiQ	●		●			●		●	
		MyiQ2	●		●			●		●	
		Opticon™, Opticon 2™		●				●			●
	Sequencers	BaseStation						●			

PCR Plates – COMPATIBILITY CHART Well Shape			900111	900110 unskirted	900122 semi skirt	900112 semi-skirt	900113B semi skirt	900123 skirted	900384 skirted	9000098 unskirted	900095 white, skirted 900093 black, skirted
Standard well. (Overall height approx. 21 mm, max. capacity approx. 350 µl)			●		●					●	
Low profile well. (Overall height approx. 16 mm, max. capacity approx. 200 µl)				●		●	●	●	50 µl		●
CORBETT RESEARCH	Thermal Cyclers	PalmCycler 96		●	●			●			
		PalmCycler 384							●		
EPPENDORF	Thermal Cyclers	Mastercycler	●	●	●			●			
		Mastercycler Gradient								●	●
		Mastercycler ep Gradient	●		●			●		●	●
		Mastercycler M384							●		
		Mastercycler Nexus	●	●	●			●			
		Mastercycler Nexus Eco	●	●	●			●			
		Mastercycler Pro	●		●			●		●	●
	"Real Time" Cyclers	Mastercycler ep Realplex	●		●			●		●	●
ERICOM	Thermal Cyclers	Power Block I	●	●							
		Deltacycler I	●	●	●					●	
		Deltacycler II	●	●						●	
		Single Block	●	●	●					●	
		Twin Block	●	●	●					●	
ESCO	Thermal Cyclers	Swift	●		●				●		
		Gene	●		●			●	●		
		Genius	●		●			●	●	●	●
G-STORM	Thermal Cyclers	GS1	●	●	●						
		GS2	●	●	●						
		GS4	●	●	●						
		GS5X	●	●	●						
		GSXs	●	●	●						
MWG	Thermal Cyclers	Primus 96	●	●	●			●		●	●
		Primus 384							●		
	"Real Time" Cyclers	TheQ Lifecycler	●	●				●		●	●
PEQLAB	Thermal Cyclers	**peqSTAR 96**								●	
ROCHE	Thermal Cyclers	LightCycler 96					●				
	"Real Time" Cyclers	LightCycler 480					●				
SENSOQUEST	Thermal Cyclers	LabCycler Basic 96								●	●
		LabCycler Gradient 96								●	●
STRATAGENE	Thermal Cyclers	Robocycler 96	●		●					●	
		RoboCycler® Gradient	●		●			●			
		Gradient Cycler								●	●
		Mastercycler® Gradient								●	●
		MasterCycler®EP Gradient/Pro								●	●
		M384									
		Surecycler 8808		●					●		
	"Real Time" Cyclers	Mx4000®	●							●	
		Mx3000P®, Mx3005P™	●							●	
		Mastercycler® ep realplex								●	●
TAKARA	Thermal Cyclers	TP240						●			
		TP3000	●	●	●			●		●	
TECHNE	Thermal Cyclers	Genius	●	●	●					●	●
		Genius Quad	●	●	●					●	●
		Genius TC-412	●	●	●			●		●	●
		Genius, Touchgene, TC-512, TC-5000								●	●
		Prime / Prime G Full Size	●		●			●	●		
		TC Plus								●	●
		Touchgene	●	●	●						
		Touchgene Gradient (TC512)	●	●	●			●	●	●	●
		Touchgene X	●	●				●	●		
	"Real Time" Cyclers	Quantica		●				●			
THERMO HYBAID	Thermal Cyclers	MBS Satellite system	●	●	●			●	●	●	●
		MultiBlock System								●	●
		Omn-E								●	●
		Omnigene	●	●	●			●	●	●	●
		PCR Express and Omni-E	●	●	●			●	●	●	●
		PCR Sprint	●	●	●			●			
		Px2 and PxE	●	●	●			●	●	●	●
		Proflex	●		●				●		
		Touchdown	●	●	●			●	●	●	●
TRANSGENOMIC	Sequencers	Wave						●			●

96-well flexible PCR plate

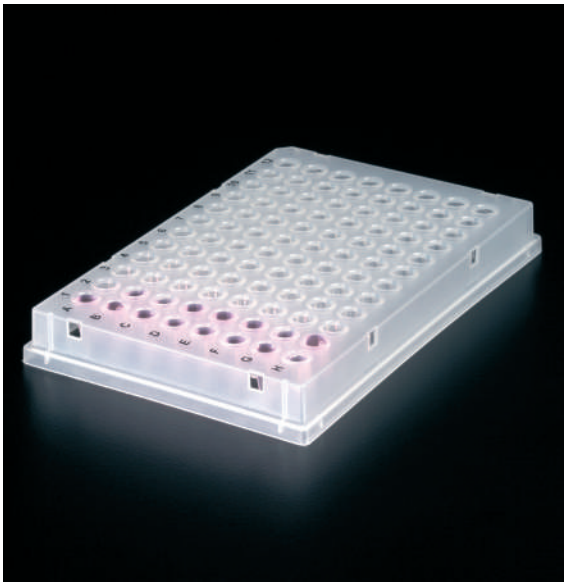
Made of polypropylene.
It is suitable for both real time and standard PCR thermocyclers.
This 96-well PCR plate is thin-walled for rapid thermal transfer. Flexible, the plate could be easily cut into sections of 24, 32 or 48 tubes.
An alphanumeric grid helps sample identification, and to facilitate orientation, the bottom right corner of the plate is cut away.
Certified RNAse and DNAse free.
Dimensions: 120 x 73 x 20 mm.
Dimensions according to the **SBS** standard.



code	colour	case quantity	case weight	case volume
900098	natural	10	0.22	0.0024

96-well low profile skirted PCR plate

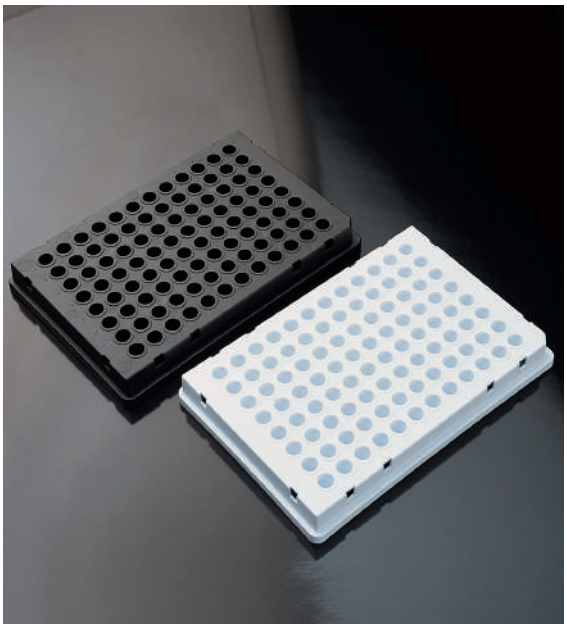
Made of polypropylene. Each "low profile" well has a capacity of 200 µl. A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.
All wells are thin walled for an excellent thermal transfer.
This plate has a skirt approximately 15 mm high that can be filled using automatic fluid handling systems or standard multichannel pipettors.
A black printed alphanumeric grid helps sample identification.
Orientation cut is at position A 12 (upper right).
RNAse, DNAse, DNA and PCR inhibitors free.
Suitable for PCR and real time **PCR (QPCR)**.
Dimensions according to the **SBS** standard.



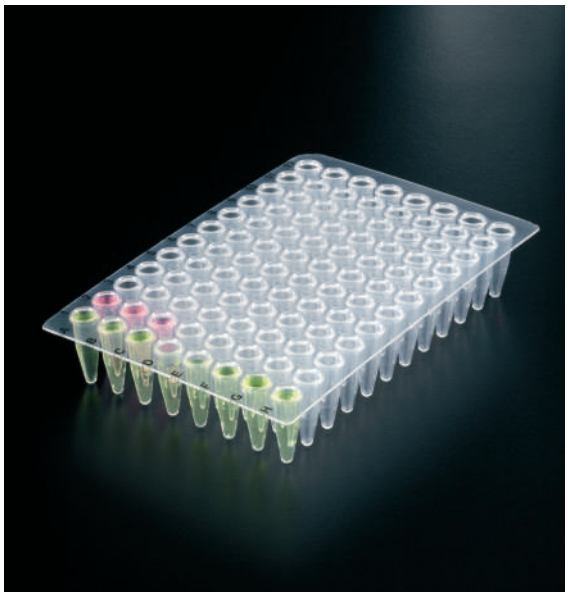
code	colour	case quantity	case weight	case volume
900123	natural	10	0.30	0.003

Opaque skirted 96 well PCR plate

Made of polypropylene.
Alphanumeric identification.
The skirt around the plate provides a labelling area. Conical-bottomed wells.
The plate can be handled by robotic equipment and is ideal with automated pipetting systems. To facilitate orientation, the bottom right corner of the plate is cut away.
Well dimensions: 5.5 mm. Well depth: 14 mm.
Code **900093**: Black plate for fluorescent PCR.
Code **900095**: White plate for luminescence (optical absorption) PCR.
Certified RNAse and DNAse free.
Dimensions: 126 x 84 x 15 mm.
Well plate volumen: 100 µl.



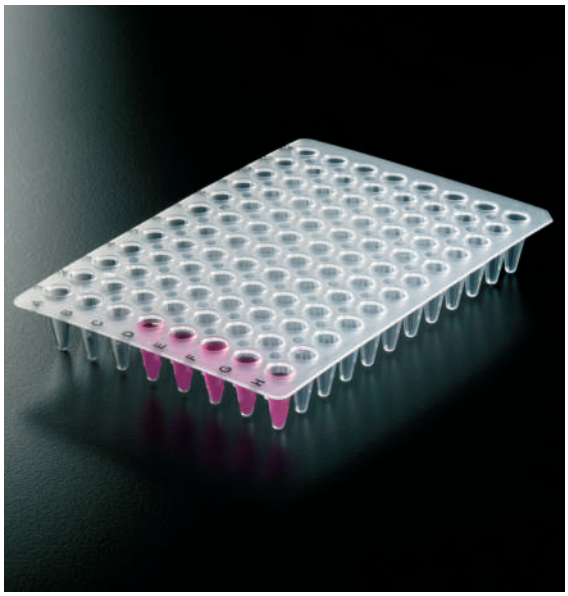
code	description	case quantity	case weight	case volume
900093	96 well black plate	5 x10	1.35	0.010
900095	96 well white plate	5 x 10	1.35	0.010



96 well standard plate

Made of transparent polypropylene.
96 wells standard plate with a capacity of 350 µl each well.
A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.
All wells are thin walled for an excellent thermal transfer.
A black printed alphanumeric grid helps sample identification.
Orientation cut is at position A 12 (upper right).
RNAse, DNAse, DNA and PCR inhibitors free.
Suitable for PCR and real time **PCR (QPCR)**.
Dimensions according to the **SBS** standard.

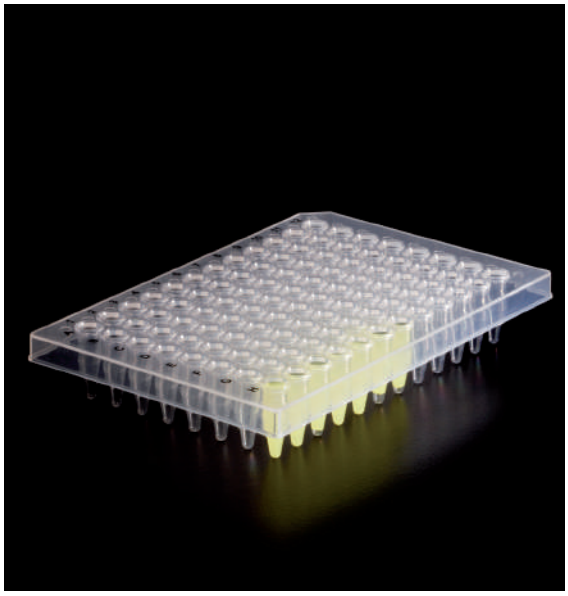
code	colour	case quantity	case weight	case volume
900111	natural	10 x 10	2.72	0.027



96-well low profile PCR plate

Made of transparent polypropylene.
Low profile well (15 mm high).
Perfect to work with samples of 100 µl or even less.
A low rim around the top of each well helps to prevent accidental cross-contamination.
The orientation cut is at position H 12 (lower right).
A printed alphanumeric grid helps sample identification.
DNAse, RNAse, DNA and PCR inhibitors free.
It is suitable for both standard or **Real Time PCR**.
Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900110	low profile PCR plate	5 x 20	1.9	0.018



96 well semi-skirt plate

Made of transparent polypropylene.
This plate has a semi skirt ±7.5 mm high.
Each well has a capacity of 200 µl and embodies a low rim around its top which prevents accidental cross-contamination and it makes easy the sealing with foils.
Orientation cut is at position A 12 (upper right).
Alphanumeric identification printed in black.
DNAse, RNAse, DNA and PCR inhibitors free.
Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900122	semi-skirt PCR plate	10	0.32	0.003

96 wells low profile, semi-skirted white plate

Specially designed for Roche thermocycler.
Made of white polypropylene. Semi-skirt "*low profile*" 96 well. Each well has a capacity of 200 µl.

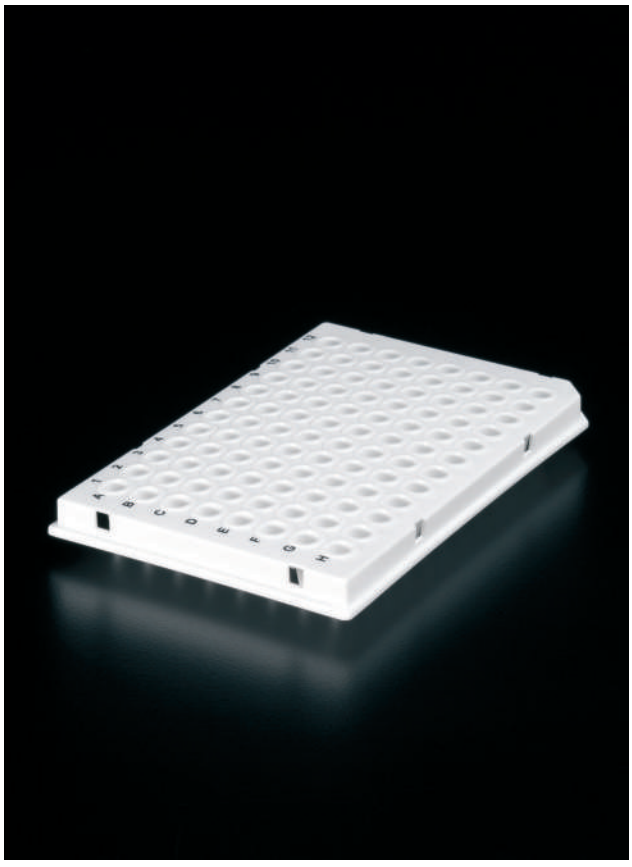
A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film.

Orientation cut is at position H 12 (bottom right).

A black printed alphanumeric grid helps sample identification.

RNAse, DNAse, DNA and PCR inhibitors free.
Suitable for **PCR** and **real time PCR**.
Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900113B	semi-skirt PCR plate	10 x 10	2.96	0.027



96 well, low profile, semi-skirted plate

Specially designed for ABI "Fast" thermocycler.
Made of transparent polypropylene.
Semi-skirt "low profile" 96 well.
Each well has a capacity of 200 µl.

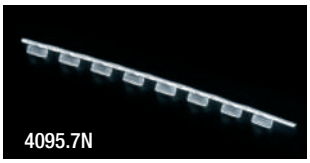
A low rim around the top of each well helps to prevent accidental cross-contamination.
Orientation cut is at position A 1 (upper left).
A black printed alphanumeric grid helps sample identification.

RNAse, DNAse, DNA and PCR inhibitors free.
Suitable for **PCR** and **real time PCR (QPCR).**
Dimensions according to the **SBS** standard.

code	description	case quantity	case weight	case volume
900112	semi-skirt PCR plate	10 x 10	2.96	0.027

PCR sealing mat

Manufactured from a non reactive rubber, this PCR sealing mat ensures a secure, leak free seal during the PCR cycling process.
It is designed to seal **96 well PCR plates**, but may also be cut to fit 24/32/48 well plates.
The mat is marked "*this side up*" for a proper positioning into the plate (sharp cone side up). This sealing mat may be sterilised in an **autoclave** or cleaned by immersion in a bleach solution.
DNAse, RNAse, DNA and PCR inhibitors free.



See page 60

code	description	case quantity	case weight	case volume
900305	PCR sealing mat	10 x 5	1.20	0.012

Adhesive sealing film

Sealing film for use with microplates, multiwell plates and microtiter plates.
Advantages:

1. Minimises the risk of contamination or reagent spillage during ELISA or PCR processes.
2. Minimises the risk of contamination from tube to tube and from plate to plate.
3. Prevents sample evaporation.

A 5 mm wide strip (opaque white) at the lateral edges of the film helps pull the film from its protective paper and prevents it sticking onto fingers. The film is thermostable and functional from **–70 ºC to 95 ºC** at 75% humidity.
RNAse and DNAse free. DMSO resistant.
We recomend to use the "roller" **900330** to ensure a perfect seal.

code	description	case quantity	case weight	case volume
900300	adhesive film	1 x 100	0.23	0.0005
900301	adhesive film suitable for QPCR	1 x 100	0.06	0.0004
900330	sealing roller	1	0.01	0.0001

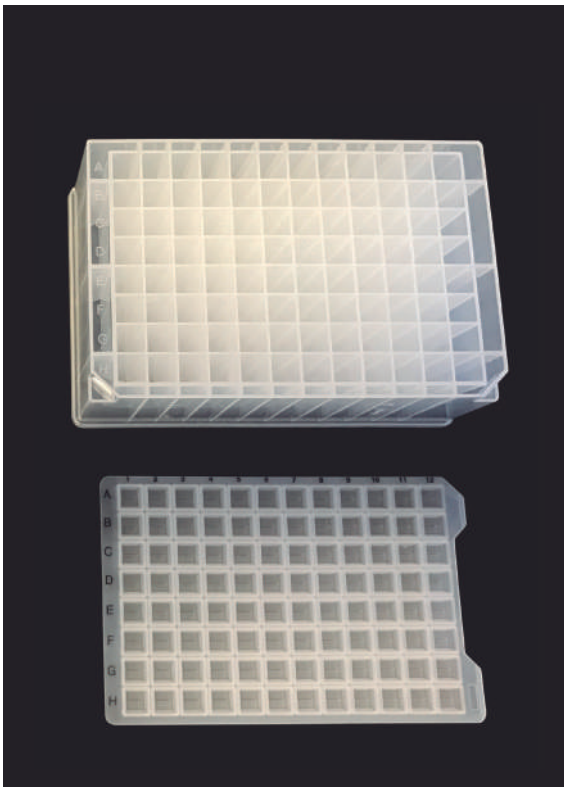
Aluminium sealing foil

This type of material is ideal for manual sealing during PCR work, microtiter plates or manipulation and file plates.
For high throughput applications from **–80 ºC to 120 ºC**.
Adhesive backing.
Pierceable with a pipette tip for easy access to sample.
DMSO resistant.
It is recommended to use the "roller" code **900330** for ensuring a perfect sealing, eliminating the danger of evaporation.
Dimmesions: 14x8 mm
RNAsa, DNAsa and DNA free.

code	description	case quantity	case weight	case volume
900320	aluminium foil	1 x 100	0.28	0.0003
900330	sealing roller	1	0.01	0.0001

Deep well plate (96 square wells or 12 rectangular channels)

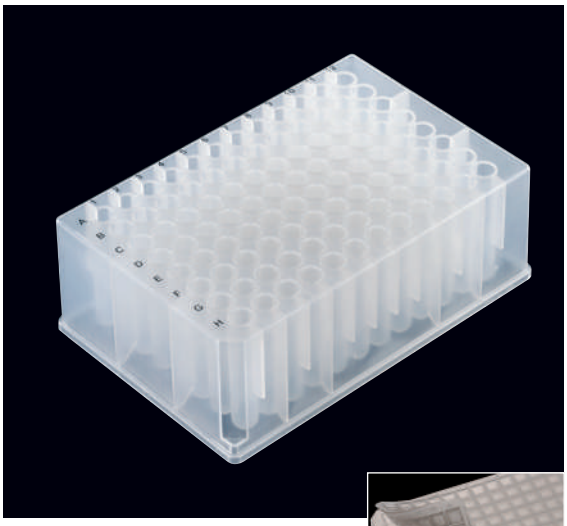
Made of medical grade polypropylene, composed of 96 wells.
V-shaped bottom squares, each with 2 ml capacity. Numeration.
Alphanumeric mold that facilitates the identification of samples.
Widely used for dispensing and storage of liquids, since either by manual or automatic pipetting (robotic).
Resists temperatures from **–80 ºC to 121 ºC (autoclave).**
Certified as free of RNase, DNase, DNA and PCR inhibitors free.
Manufactured according to SBS standards. Stackable.
Sealing mat.
Made of autoclavable silicone, exclusive for square well plates.
Alphanumeric marking serigraphed in black for easy identification of wells.
It is pierceable, so it should not be removed to aspirate the sample.
It has 2 tabs on the right side for easy positioning.



mod.	code	description	case quantity	case weight	case volume
1	**900198**	96 well plate 2.0 ml	5	0.58	0.0032
2	**900310**	PCR sealing mat	10	0.14	0.0008

96 deep well plate (96 round wells)

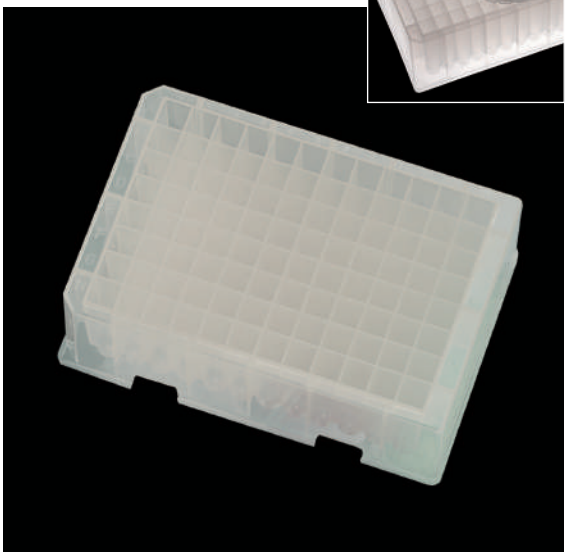
Made of medical grade polypropylene, it is comprised of 96 round bottom wells, each one of 1.2 ml capacity. Printed alphanumeric grid helps sample identification, and to facilitate orientation the bottom right corner of the plate is cut away.
Widely used for liquid handling and storage, whether with manual pipetting or robotic handling.
It withstands temperatures from **–90 ºC to 121 ºC (autoclave)**.
Dimensions according to SBS.
Certified free from detectable RNase, DNase, DNA and PCR inhibitors free.



code	description	case quantity	case weight	case volume
900156	96 well plate 2.0 ml	5	0.51	0.003

96 deep well plate (square well, round bottom)

Made of polypropylene. The 2.1 ml well capacity (2.0 when capped) plate is used mainly for compound storage and enzyme assays. An alphanumeric grid helps sample identification, and to facilitate orientation the bottom right corner of the plate is cut away. DMSO resistant. Can be centrifuged up to **6000 xg**.
Withstand temperatures up to **–150 ºC**. **Autoclavable**.
Each well measures 8.3 x 8.3 mm.
Plate dimensions: 41.6 mm high x 127.8 mm long x 85.5 mm wide.
We recommend to protect the samples with the sealing mat code **900306** (DMSO resistant).



code	description	case quantity	case weight	case volume
900170	96 deep well plate, natural colour	4	0.47	0.002
900306	sealing mat	24	3.60	0.002

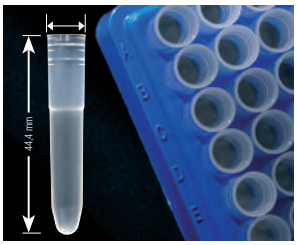
Sample storage system

96 round bottom tubes, supplied in twelve strips of eight tubes each, held in a rack with lid. Rack, lid, tubes and caps are made of **autoclavable** polypropylene, manufactured with the **SBS** standard footprint.
Compatible with all robotic applications and multichannel pipetting systems.
Alphanumeric numbered wells, indelibly printed in black, allowing identification in short light conditions. **DNAse, RNAse, DNA and PCR inhibitors free**.
Used for serial dilutions, mixing, storage and harvesting of cells, cell growth for cell culture assays and DNA screening, and as an ideal long-term storage system. Caps are sold separately in strips of eight or twelve units, depends on the model; every cap has a tag to make an easy opening and closing.
Tube dimensions (height): 8 x 44 mm
Rack dimensions (with lid): 128 x 86 x 48 mm

code	description	case quantity	case weight	case volume
409009	rack with 96 tubes (8 x 12)	10	1.63	0.010
409010	strips of 8 tubes each	125 strips	0.27	0.007
409011	strips of 8 caps each	125 strips	0.11	0.012
409012	loose tubes	1,000	0.63	0.005
NEW **409013**	strips of 12 tubes each	80	0.126	0.001
NEW **409014**	strips of 12 caps	80	0.662	0.006

Sample storage system

Compact sample storing system. It consists on a blue rack with a translucent lid, holding 96 loose round bottom tubes (1,2 ml) arranged in 8 x 12. Robotics suitable version (**RC845TP**). **Autoclavable** and stackable, it resists up to **–100 ºC**, and embodies a moulded alphanumeric identification.
Rack, lid and tubes made of polypropylene. Caps made of low density polyethylene.
Caps are sold apart in strips of eight units; every cap has a tag to make an easy opening and closing.
Tube dimensions (height, closed): 8,8 x 45 mm.
Rack dimensions (with lid): 118 x 82 x 50 mm.
DNAse, RNAse.



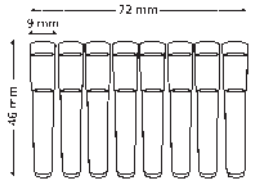
mod.	code	description	case quantity	case weight	case volume
1	**409008**	rack with 96 tubes (8 x 12)	10	1.40	0.007
2	**RC845TP***	rack with 96 tubes for robotics	10	1.14	0.010
	409005	strips of 8 caps each	120 strips	0.16	0.002
	845	tubes in bulk	1,000	0.60	0.004

* pyrongen free

Sample storage system

It consists on a white rack and a transparent lid, with 96 tubes (12 x 8) 1.2 ml (capped, 1.1 ml).
Tubes and rack are manufactured in polypropylene, being autoclavable.
Caps in non **autoclavable** polyethylene.
Caps are acquired apart, in strips on eight units.
It is ideal to work with robots and multichannel pipetting systems, as well as for sample transport, storage, or freezing (it can withstand up to **–80 ºC**).
It stands up the majority of chemical agents.
Both lid and rack embody an alphanumeric identification.
The top left edge of the lid is cut for an exact orientation.
Tube dimensions (capped): 9 x 48 mm.
Rack dimensions (with lid): 126 x 81 x 53 mm.

According to **SBS** standard.



code	description	case quantity	case weight	case volume
409004	rack with 96 tubes (8 x 12)	10	1.80	0.009
408002	tubes of 8 caps each	120 strips	0.73	0.005
408005	strips of 8 caps each	120 strips	0.09	0.001
408003	loose tubes	5 x 960	3.88	0.028

Storage rack with 2 ml tubes

Compatible with most robotic Workstation, this polypropylene storage rack can be used with most cell harvesters and multichanel pipettors.
It contains 96 removable polypropylene square tubes in a 8 x 12 configuration, each having a 2.1 ml capacity.
Although the tubes are square, the bottom is round to facilitate emptying.
Tubes and rack are **autoclavable** and they are ideal for storage of blood and other biological samples at temperatures from **–30°C up to 70°C**.

Racks are stackable to save storage space.
According to **SBS** standard.

code	description	case quantity	case weight	case volume
418003	96 well storage rack with tubes	10	1.81	0.012