

Tubes



Microtubes



Centrifuge Tubes



Screwcap Tubes



Cryotubes

Hyper Microtube

1.5 mL
Round Bottom

2.0 mL

The Ultimate Microtube



[1.5 mL]
Material: Virgin Polypropylene
Centrifugal force:
20,000 xG (water 1.0 mL / 15 minutes)
With scale (500 / 1000 / 1500 µL)
Flat top (with marking space)
RNase/DNase/Human-DNA free

[2.0 mL]
Material: Virgin Polypropylene
Centrifugal force:
20,000 xG (water 1.5 mL / 15 minutes)
With scale (500 / 1000 / 1500 / 2000 µL)
Flat top (with marking space)
RNase/DNase/Human-DNA free



Cat. No.	Item	Unit	Case
131-715C	1.5 mL, Microtube with Locking-Cap, Round Bottom, Hard-Touch, Natural	1000 tubes / bag	10 bags
131-7155C	1.5 mL, Microtube with Locking-Cap, Round Bottom, Soft-Touch, Natural	1000 tubes / bag	10 bags
132-620C	2.0 mL, Microtube with Locking-Cap, Round Bottom, Slight-Stiff-Touch, Natural	1000 tubes / bag	5 bags

Features



Locking mechanism

Safety lock system is equipped.
Hard type and soft type are available.



Friendly hinge for finger

Rounded and embossed cap-edge reduces irritation to the finger, and makes it easier to close the cap.



Scale

The volume is easily recognized with the scale for each 0.5 mL described on the tube.



Contamination prevention

Lock part prevents the thumb from touching the inner cap when opening and closing.



Unique shape of cap

Easy opening cap with less force. Flat cap allows marking on the top.



Writing space

Writing space is available on the surface of tube (opposite side from the scale side).



Nuclease-free certificate

This mark shows RNase/DNase/Human-DNA free. Products with this mark are manufactured in the clean room under our high quality control, and inspected to meet our strict quality standards. RNase/DNase-free certificates can be issued for each lot upon your request.



Hyper Microtube

Microtube High-Seal

1.5 mL
Flat Bottom

Pursuing a higher level of sealability.



Writing space

Flat cap allows marking on the top.



Flat bottom

Real scale



38.5 mm



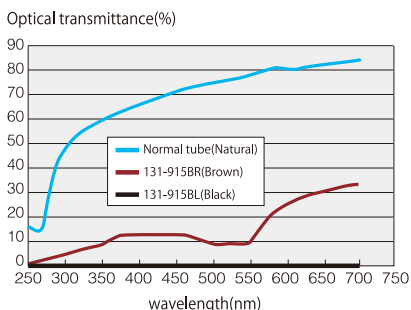
Material: Virgin Polypropylene
Centrifugal force:
20,000 xG (water 1.0 mL / 15 minutes)
With scale (200 / 1,000 µL)
Flat top (with marking space)
RNase/DNase/Human-DNA free

Cat. No.	Item	Unit	Case
131-815C	1.5 mL, Microtube, High-Seal, Flat Bottom, Slight-Stiff-Touch Cap, Natural	1000 tubes / bag	10 bags
131-8155C	1.5 mL, Microtube, High-Seal, Flat Bottom, Soft-Touch Cap, Natural	1000 tubes / bag	10 bags

1.5 mL
Flat Bottom

1.5 mL Black & Brown for Shading

- Ultraviolet rays are not passed, suitable for light-sensitive sample.
- Convenient for experiment and preservation of the sample.
- Completely opaque black and translucent brown are available.



Material: Virgin Polypropylene
Centrifugal force:
20,000 xG (water 1.0 mL / 15 minutes)
With scale (200 / 1,000 µL)
Flat top (with marking space)
RNase/DNase/Human-DNA free



38.5 mm

Real scale

Cat. No.	Item	Unit	Case
131-915BL	1.5 mL, Microtube, Flat Bottom, Slight-Stiff-Touch Cap, Black for Shading	1000 tubes / bag	10 bags
131-915BR	1.5 mL, Microtube, Flat Bottom, Slight-Stiff-Touch Cap, Brown for Shading	1000 tubes / bag	10 bags



Microtubes

0.6 mL
Round Bottom

Round Bottom Standard Microtube



Material: Virgin Polypropylene
 Centrifugal force:
 19,000 xG (water 0.5 mL / 15 minutes)
 With scale(100 / 200 / 300 / 400 / 500 / 600 µL)
 Flat top (with marking space)
 RNase/DNase/Human-DNA free



Scale



Writing Space

Marking space available opposite the scale.

Cat. No	Item	Unit	Case
130-806C	0.6 mL, Microtube, Round Bottom, Snap Cap, Natural	1000 tubes / bag	10 bags



Microtubes

5.0 mL
Round Bottom

Round Bottom "Mega" Tube



Scale



Writing Space

Marking space available opposite the scale.



Material: Virgin Polypropylene
 Centrifugal force:
 20,000 xG (water 4.0 mL / 15 minutes)
 With scale(1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 mL)
 Flat top (with marking space)
 RNase/DNase/Human-DNA free

Real scale



56.0 mm

Cat. No	Item	Unit	Case
233-150C	5.0 mL, Megatube, Round Bottom, Slight-Stiff-Touch Cap, Natural	250 tubes / bag	10 bags

PROKEEP Protein Low Binding Tube



PROKEEP is a high quality tube developed for the use of protein or peptide analysis (SDS-PAGE, HPLC, MS) as it mitigates the risk of the sample loss during experiment and preservation, and improves the signals detection.

Our special blending plastic materials avoid problem caused by elution from the tube

PROKEEP tubes reduce protein binding as a result of using our special blending of raw materials with low protein/peptide absorption and our technique of high precision finishing on the mold (no surface treatment on PROKEEP). With PROKEEP, elution from the tube can be avoided and better experiment result on MALDI MS analysis and Protein Chip analysis can be anticipated (See below).

Protein Low Binding Tube "PROKEEP"

PROKEEP's Protein Low Binding performance

Loss of protein and peptide when using plastic containers is caused by the following two factors.

- a. Solution remained in the container after pipetting or centrifuge.
- b. Adsorption of protein and peptide to the plastic containers.

PROKEEP has been developed by approaching both of two factors.

Watson's PROKEEP containers are incomparable in terms of achieving a low residue signal.

PROKEEP's residue signal is approximately 1 / 20 million, which is 1 / 850 residue amount of other conventional hydrophilic products in the following factor (1).

No occurrence of peptide signal loss during 2 weeks-storage in the following factor (2).

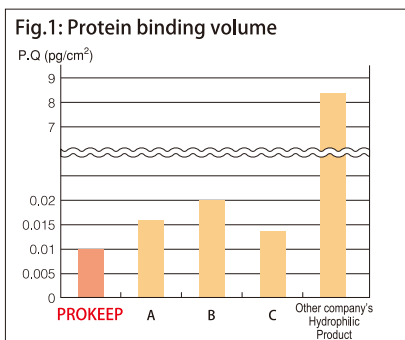
(1) Residue Protein Amount: Fig 1

Test Method:

FITC-BSA solution (1 µg/mL) was put in a microtube and left for 1 hour at room temperature. The fluorescence of the surface of the tube was measured and digitized after removal of the solution, and then the residual protein mass was analyzed. This method evaluates the residual amount of protein on the surface of the tube.

Results:

The residue amount on PROKEEP low protein binding tube is extremely low, which is 1 / 20million of the protein added. Tubes with hydrophilic surface treatment exhibited higher residue amount due to characteristic of the treatment.(Fig.1)



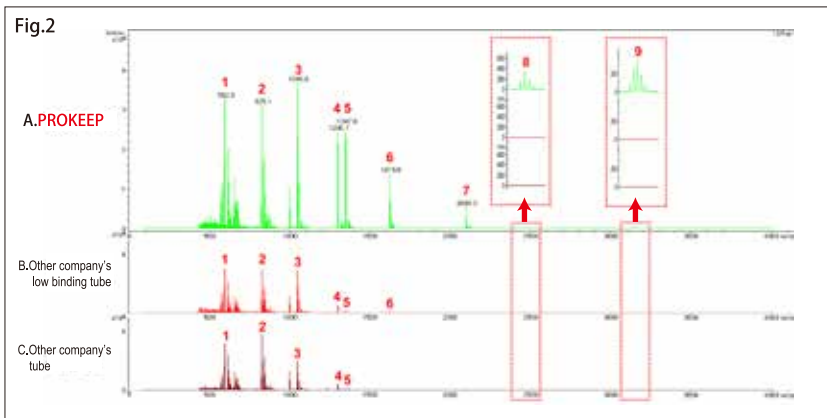
(2) Adsorption of protein and peptide to the tube: Fig 2

Test Method:

A solution (0.1%TFA, 10 µL) equivalent to 500 fmol/µL peptide mix contained in Bruker Daltonics's Peptide calibration standard (#206195) was put in a tube and kept at 4°C for 2 weeks. Then, the peptide in the tube was collected and analyzed by mass spectrometer (Bruker Daltonics's Ultraflex tof/ tof) .

Results:

In the case of PROKEEP's low protein binding tube, all the peaks were detected after the 2 weeks. Conventional tube's showed a part of the peaks were undetectable and peptide loss by adsorption was observed (Fig 2B).



(3) Crystallization on MALDI Target Plate

Fig.3



PROKEEP Other company's hydrophilic treated tube Other company's low binding tube

Test Method:

In the crystallization process on a target plate, which is the indispensable process of MALDI type mass spectrometer analysis, a sample collected from another company's hydrophilic treated tube exhibited a disturbance in crystallization and it was difficult to conduct an accurate measurement, and elution of resin content was suspected(Fig. 3). PROKEEP's low protein binding tube showed equivalent performance to the tube recommended by Bruker Daltonics.

1.5 mL
Flat Bottom

2.0 mL

Protein Low Binding Tube "PROKEEP"



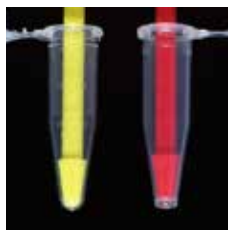
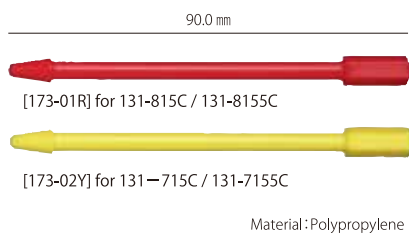
Material: Virgin Polypropylene
 Centrifugal force:
 [1.5 mL] 20,000 xG (water 1.0 mL / 15 minutes)
 [2.0 mL] 7,000 xG (water 1.5 mL / 15 minutes)
 RNase/DNase/Human-DNA free



Cat. No.	Item	Unit	Case
PK-15C-500	PROKEEP protein low binding tube 1.5 mL, Flat Bottom, Natural, Bulk pack	500 tubes / bag	20 bags
PK-20C-500	PROKEEP protein low binding tube 2.0 mL, Round Bottom, Natural, Bulk pack	500 tubes / bag	20 bags

Homogenizer Pestles

Special pestle for Watson brand microtubes



Pestles can be attached to bit-type screw drivers commercially available.



Cat. No.	Item	Unit	Case
173-01R	Pestles for Flat Bottom Microtube (131-815C / 8155C), Red	10 pieces	100 bags
173-02Y	Pestles for Round Bottom Microtube (131-715C / 7155C), Yellow	10 pieces	100 bags

Cap Lock

Designed to fit Watson brand microtubes



Material: Elastomer



Squeeze the knob of CAP LOCK to open



Pinch the closed lid of the tube with CAP LOCK



Then, CAP LOCK fits perfectly



The knob of CAP LOCK is useful when picking up from thermostat bath



Cat. No.	Item	Unit	Case
174-17Y	Cap Lock for 1.5 / 2.0 mL Microtube, Yellow	100 pieces	30 bags

"PROKEEP" / Homogenizer Pestles / Cap Lock

Centrifuge Tubes

Half plug seal, Sealing point, Triple thread screw...

New centrifuge tube full of new ideas to achieve high airtightness



Real scale

Material: Polypropylene (tube)
Polyethylene (cap)



centrifuge tube



RNase /DNase / Human-DNA free

Products with this mark are manufactured in the clean room under our high quality control, and inspected to meet our strict quality standards.
RNase/DNase-free certificates can be issued for each lot upon your request.



Pyrogen test

Results : Endotoxin level less than 0.05 EU/mL
* according to Internal test

Centrifugal force

Tested with conical centrifuge tubes, 15mL and 50mL.

15 mL centrifuge tube : 18,000×G (14,100 RPM)
50 mL centrifuge tube : 18,000×G (14,100 RPM)

[Test condition]

Centrifuge : TOMY MX-30S

Temp. : 20°C

Distilled Water : 12 mL for 15 mL CF tube
40 mL for 50 mL CF tube

Rotor : AR-510-04

Centrifugation : 5 minutes



Cat. No.	Item	Unit
1332-0155	15 mL, Centrifuge Tube, Conical Bottom, White Cap Sterilized	480 pieces (48 pieces×10 bags)
1342-050S	50 mL, Centrifuge Tube, Conical Bottom, White Cap Sterilized	480 pieces (24 pieces×20 bags)
1342-550S	50 mL, Centrifuge Tube, Self-standing, White Cap Sterilized	480 pieces (24 pieces×20 bags)

High airtightness

Sealing point

The proper cap torque-position is informed by the click, when one of the 3 protrusions inside the lid fits into the groove on the tube.



① The protrusions on the cap indicate you the best sealing position when it fits on the groove.



② The left picture shows too much screwing when the protrusions go over the groove.



③ The left picture shows possible loosening the cap and sample leakage when the protrusions come before the groove.

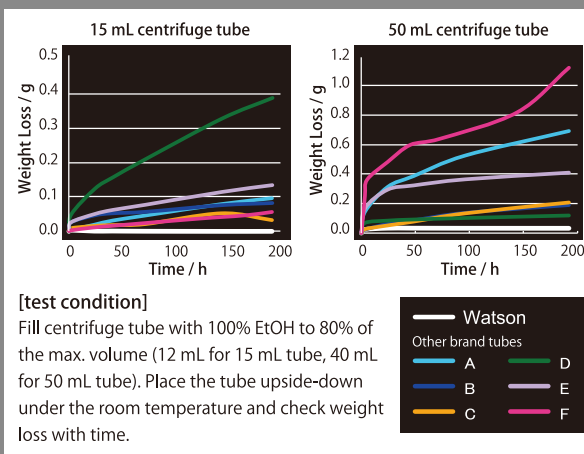


Half plug seal

Bigger sealing area performs higher airtightness.

Triple thread screw

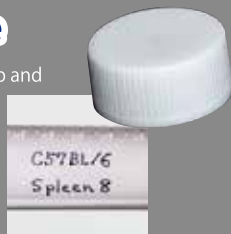
Triple thread screw enables easy open/close with less rotation. It also prevents screwing a cap diagonally.



Convenient functions

Wide writing space

It has wide writing space on a cap and the frosted area on the body.



High precision-scale till the cone top

Graduation is molded so that it does not fade away. Scale is made till 0.5 mL line at the cone.



Centrifuge Tube Floating Rack "Jellyfish"



- Dedicated rack for four 15 mL / 50 mL centrifuge tubes.
- The rack can be used as a floater by changing the direction of the tray.



Dual-use

■ As a rack



■ As a floater



Cat. No.	Item	Unit
1541-809	Centrifuge Tube Floater Rack "Jellyfish"	1 piece



Centrifuge Tubes / Centrifuge Tube Floating Rack

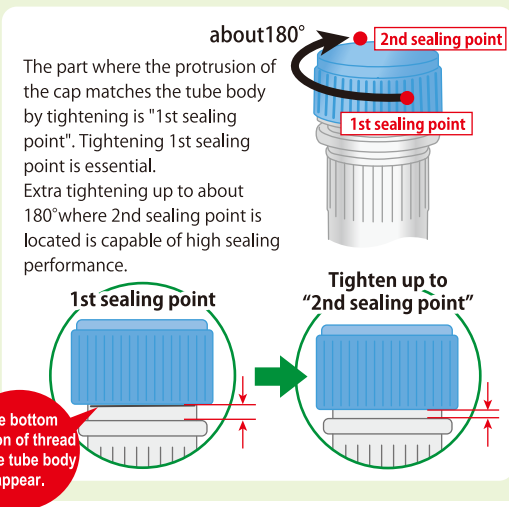
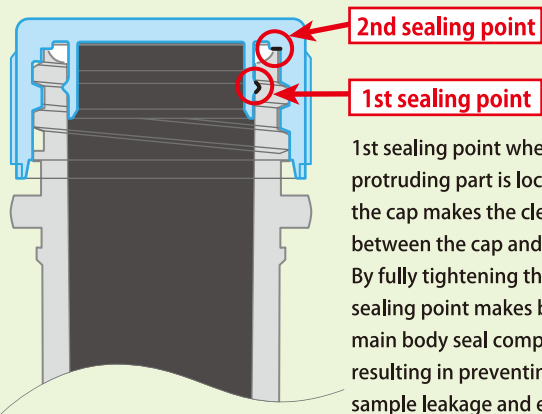
O-ring less Screwcap Tube is NOT autoclavable.

If autoclave process needed, please apply "Screwcap Tubes" with O-ring on pages 50 and 51.

O-ring less Screwcap Tubes

Double-sealed design, Leak-less even without O-ring

Two sealing points provide high airtightness



O-ring less Screwcap Tubes



Durable for centrifugal force 20,000 xG*

Our originally designed tube using 100% virgin medical-grade polypropylene proves resistance against a centrifugal force as high as 20,000 x G (water, 15 min, adapter used) .
*0.5mL Tube : 17,000 x G



User-friendly and small group packaging

A small sterilized package consists of 20 pcs of screw tubes with its caps sealed completely. More hygienic performance is available.



Convenient for positioning the tube when centrifugation

A marker (notch), which is convenient for positioning the tube during centrifugation and other purposes, is provided on the flange of the tube.



Polyethylene Cap

The lineup of user-selectable 5 colors is capable of classification.
* Not Autoclavable

Precautions: Handling Screwcap Tubes under the Liquid Nitrogen

1. In terms of safety, store the screwcap tubes in the vapor phase.
2. To avoid any risks such as the tube rupture and the sample spatter, do NOT handle the screwcap tube under the liquid phase.
3. Fill up the test sample into the body of the screwcap tube up to the degree of 90% of the maximum content.
4. Wear a face shield, protective clothes, and gloves when handling liquid nitrogen for defrosting.

0.5 mL
Self-Standing
Conical with skirted base

Material: Virgin Polypropylene (tube) Polyethylene (cap)
Centrifugal force: 17,000 x G (water 0.5 mL / 15 minutes)
Flat top (with marking space)



Real scale



Cat. No.	Item	Cap color	Unit	Case
1394-050-SS-CS	0.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized clear	500 tubes (20 tubes x 25 bags)	10 units
1394-050-SS-BS	0.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized blue	500 tubes (20 tubes x 25 bags)	10 units
1394-050-SS-GS	0.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized green	500 tubes (20 tubes x 25 bags)	10 units
1394-050-SS-RS	0.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized red	500 tubes (20 tubes x 25 bags)	10 units
1394-050-SS-YS	0.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized yellow	500 tubes (20 tubes x 25 bags)	10 units
1394-050-SS-LP-CS	0.5 mL, O-ring less Screwcap Tube attached Loop Cap, Self-standing	Sterilized clear	500 tubes (20 tubes x 25 bags)	10 units

1.5 mL
Conical

Material: Virgin Polypropylene (tube) Polyethylene (cap)
Centrifugal force: 20,000 x G (water 1.0 mL / 15 minutes)
Flat top (with marking space)



Real scale

Cat. No.	Item		Cap color	Unit	Case
1394-150-CS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units
1394-150-BS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	blue	500 tubes (20 tubes x 25 bags)	10 units
1394-150-GS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	green	500 tubes (20 tubes x 25 bags)	10 units
1394-150-RS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	red	500 tubes (20 tubes x 25 bags)	10 units
1394-150-YS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	yellow	500 tubes (20 tubes x 25 bags)	10 units
1394-150-LP-CS	1.5 mL, O-ring less Screwcap Tube attached Loop Cap, Conical Bottom	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units



(tube only)
Length
44.9mm
Maximum
Diameter
Φ 10.6 mm

1.5 mL
Self-Standing
Conical with skirted base

Material: Virgin Polypropylene (tube) Polyethylene (cap)
Centrifugal force: 20,000 x G (water 1.0 mL / 15 minutes)
Flat top (with marking space)



Real scale

Cat. No.	Item		Cap color	Unit	Case
1394-150-SS-CS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units
1394-150-SS-BS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	blue	500 tubes (20 tubes x 25 bags)	10 units
1394-150-SS-GS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	green	500 tubes (20 tubes x 25 bags)	10 units
1394-150-SS-RS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	red	500 tubes (20 tubes x 25 bags)	10 units
1394-150-SS-YS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	yellow	500 tubes (20 tubes x 25 bags)	10 units
1394-150-SS-LP-CS	1.5 mL, O-ring less Screwcap Tube attached Loop Cap, Self-standing	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units



(tube only)
Length
45.6mm
Maximum
Diameter
Φ 10.6 mm

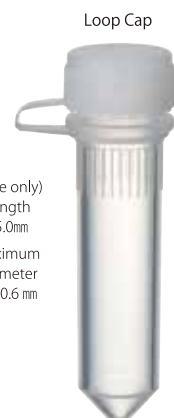
2.0 mL
Conical

Material: Virgin Polypropylene (tube) Polyethylene (cap)
Centrifugal force: 20,000 x G (water 1.5 mL / 15 minutes)
Flat top (with marking space)



Real scale

Cat. No.	Item		Cap color	Unit	Case
1394-200-CS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units
1394-200-BS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	blue	500 tubes (20 tubes x 25 bags)	10 units
1394-200-GS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	green	500 tubes (20 tubes x 25 bags)	10 units
1394-200-RS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	red	500 tubes (20 tubes x 25 bags)	10 units
1394-200-YS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	yellow	500 tubes (20 tubes x 25 bags)	10 units
1394-200-LP-CS	2.0 mL, O-ring less Screwcap Tube attached Loop Cap, Conical Bottom	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units



(tube only)
Length
45.0mm
Maximum
Diameter
Φ 10.6 mm

2.0 mL
Self-Standing
Conical with skirted base

Material: Virgin Polypropylene (tube) Polyethylene (cap)
Centrifugal force: 20,000 x G (water 1.5 mL / 15 minutes)
Flat top (with marking space)



Real scale

Cat. No.	Item		Cap color	Unit	Case
1394-200-SS-CS	2.0 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units
1394-200-SS-BS	2.0 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	blue	500 tubes (20 tubes x 25 bags)	10 units
1394-200-SS-GS	2.0 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	green	500 tubes (20 tubes x 25 bags)	10 units
1394-200-SS-RS	2.0 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	red	500 tubes (20 tubes x 25 bags)	10 units
1394-200-SS-YS	2.0 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	yellow	500 tubes (20 tubes x 25 bags)	10 units
1394-200-SS-LP-CS	2.0 mL, O-ring less Screwcap Tube attached Loop Cap, Self-standing	Sterilized	clear	500 tubes (20 tubes x 25 bags)	10 units



(tube only)
Length
45.2mm
Maximum
Diameter
Φ 10.6 mm



O-ring less Screwcap Tubes

Screwcap Tubes

Durable for centrifugal force 20,000 xG*



Our originally designed tube using 100% virgin medical-grade polypropylene proves resistance against a centrifugal force as high as 20,000 x G (water, 15 min, adapter used).
* 0.5mL Tube : 17,000 x G

Convenient for positioning the tube when centrifugation



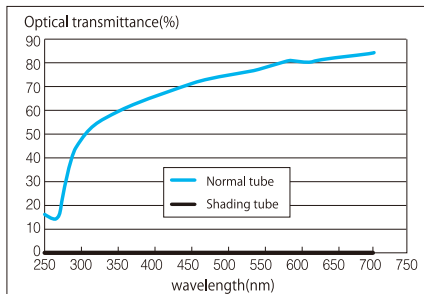
A marker (notch), which is convenient for positioning the tube during centrifugation and other purposes, is provided on the flange of the tube.

Resistant to the pressure and freeze



O- ring made of silicone rubber is resistant to the pressure and is suitable for storage in liquid nitrogen (vapor phase) or the deep freezer.

Shading screwcap tube



This light-shielding screwcap tube is capable of thoroughly shielding light of short to long wavelengths and is best suited for use in experiments on sensitive samples, such as bilirubin, as well as their storage.

Precautions: Handling Screwcap Tubes under the Liquid Nitrogen

1. In terms of safety, store the screw cap tubes in the vapor phase.
2. To avoid any risks such as the tube rupture and the sample spatter, do NOT handle the screwcap tube under the liquid phase.
3. Fill up the test sample into the body of the screwcap tube up to the degree of 90% of the maximum content.
4. Wear a face shield, protective clothes, and gloves when handling liquid nitrogen for defrosting.

Screwcap Tubes

0.5 mL
Self-Standing
Conical with skirted base

Material: Virgin Polypropylene (tube, cap)
Silicone Rubber (O-ring: Please loosen the cap and autoclave)
Centrifugal force: 17,000 x G (water 0.5 mL / 15 minutes)
Flat top (with marking space)



Real scale
AC
Autoclavable

Cat. No.	Item	Unit	Case
139-105-111C	0.5 mL, Screwcap Tube, Self-standing, Natural (tube only)	500 tubes	10 bags
139-105-111BL	0.5 mL, Screwcap Tube for Shading, Self-standing, Black (tube only)	500 tubes	10 bags
1392-050-SS-LP-C	0.5 mL, Screwcap Tube attached Loop Cap, Self-standing, Natural	500 tubes	10 bags



1.5 mL
Conical

Material: Virgin Polypropylene (tube, cap)
Silicone Rubber (O-ring: Please loosen the cap and autoclave)
Centrifugal force: 20,000 x G (water 1.0 mL / 15 minutes)
Flat top (with marking space)



Real scale
AC
Autoclavable

Cat. No.	Item	Unit	Case
139-115-112C	1.5 mL, Screwcap Tube, Conical Bottom, Natural (tube only)	500 tubes	10 bags
139-115-112BL	1.5 mL, Screwcap Tube for Shading, Conical Bottom, Black (tube only)	500 tubes	10 bags
1392-150-LP-C	1.5 mL, Screwcap Tube attached Loop Cap, Conical Bottom, Natural	500 tubes	10 bags



1.5 mL
Self-Standing
Conical with skirted base

Material: Virgin Polypropylene (tube, cap)
Silicone Rubber (O-ring: Please loosen the cap and autoclave)
Centrifugal force: 20,000 x G (water 1.0 mL / 15 minutes)
Flat top (with marking space)



Cat. No.	Item	Unit	Case
139-115-111C	1.5 mL, Screwcap Tube, Self-standing, Natural (tube only)	500 tubes	10 bags
139-115-111BL	1.5 mL, Screwcap Tube for Shading, Self-standing, Black (tube only)	500 tubes	10 bags
1392-150-SS-LP-C	1.5 mL, Screwcap Tube attached Loop Cap, Self-standing, Natural	500 tubes	10 bags



2.0 mL
Conical

Material: Virgin Polypropylene (tube, cap)
Silicone Rubber (O-ring: Please loosen the cap and autoclave)
Centrifugal force: 20,000 x G (water 1.5 mL / 15 minutes)
Flat top (with marking space)



Cat. No.	Item	Unit	Case
139-120-112C	2.0 mL, Screwcap Tube, Conical Bottom, Natural (tube only)	500 tubes	10 bags
139-120-112BL	2.0 mL, Screwcap Tube for Shading, Conical Bottom, Black (tube only)	500 tubes	10 bags
1392-200-LP-C	2.0 mL, Screwcap Tube attached Loop Cap, Conical Bottom, Natural	500 tubes	10 bags



2.0 mL
Self-Standing
Conical with skirted base

Material: Virgin Polypropylene (tube, cap)
Silicone Rubber (O-ring: Please loosen the cap and autoclave)
Centrifugal force: 20,000 x G (water 1.5 mL / 15 minutes)
Flat top (with marking space)



Cat. No.	Item	Unit	Case
139-120-111C	2.0 mL, Screwcap Tube, Self-standing, Natural (tube only)	500 tubes	10 bags
139-120-111BL	2.0 mL, Screwcap Tube for Shading, Self-standing, Black (tube only)	500 tubes	10 bags
1392-200-SS-LP-C	2.0 mL, Screwcap Tube attached Loop Cap, Self-standing, Natural	500 tubes	10 bags



Screwcaps



6 Colors

Material: Virgin Polypropylene (cap) Silicone Rubber (O-ring)



Cat. No.	Item	Unit	Case
139-201C	Screwcap with O-ring, Natural	500 pieces	20 bags
139-201B	Screwcap with O-ring, Blue	500 pieces	20 bags
139-201G	Screwcap with O-ring, Green	500 pieces	20 bags
139-201R	Screwcap with O-ring, Red	500 pieces	20 bags
139-201Y	Screwcap with O-ring, Yellow	500 pieces	20 bags
139-201BL	Screwcap with O-ring, Black	500 pieces	20 bags



Screwcap Tubes / Caps

Screwcap Opener



Easy to open the cap without direct touch by hand.



Material: Polycarbonate

Cat. No.	Item	Unit
175-15C	Screwcap Opener, Natural	1 piece

Piccolo Rack



The notch (Knurled area) is made both on the body of the Watson Screwcap Tube and on each of well of the Piccolo Rack so that the Screwcap Tube is completely fixed. Thus, the cap of the Screwcap Tube can be easily opened and closed with one hand (much easier to open by using Screwcap Opener).

Dimensions: W118mm × D82mm × H52mm



Material: Polycarbonate

Cat. No.	Item	Unit	Case
1522-2451	Piccolo Rack for 24 Screwcap Tubes, Clear	10 pieces	5 units

Freezer Storage Racks



Excellent storage racks in terms of its characteristics, heat-proof and crash-proof. Conventional frozen preservation tube (to 2.0 mL) can be applied to and the plate can be piled up.

Dimensions: (50well) W146mm × D76mm × H55mm
(81well) W131mm × D131mm × H52mm



Material: Polycarbonate (rack)
Polypropylene (plate)

Cat. No.	Item	color	Unit	Case
1577-550B	Freezer Storage Rack for 50 Microtubes	Blue	10 pieces	10 units
1577-550G	Freezer Storage Rack for 50 Microtubes	Green	10 pieces	10 units
1577-550R	Freezer Storage Rack for 50 Microtubes	Red	10 pieces	10 units
1577-550W	Freezer Storage Rack for 50 Microtubes	White	10 pieces	10 units
1577-550Y	Freezer Storage Rack for 50 Microtubes	Yellow	10 pieces	10 units
1577-850B	Freezer Storage Rack for 81 Microtubes	Blue	10 pieces	10 units
1577-850G	Freezer Storage Rack for 81 Microtubes	Green	10 pieces	10 units
1577-850R	Freezer Storage Rack for 81 Microtubes	Red	10 pieces	10 units
1577-850W	Freezer Storage Rack for 81 Microtubes	White	10 pieces	10 units
1577-850Y	Freezer Storage Rack for 81 Microtubes	Yellow	10 pieces	10 units

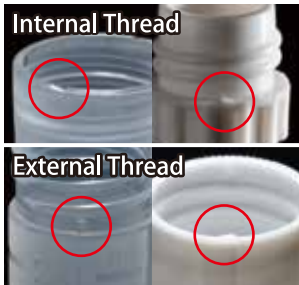
Note:(*)Repeated autoclaving may cause rack damaged.

Screwcap Opener / Piccolo Rack / Freezer Storage Racks

Cryotubes

Vial for cryopreservation **in the vapor phase of liquid nitrogen**

Cap lock mechanism



Tube has small protrusion on both of body and cap. As a result, this tube has high sealing effect and it's possible to prevent sample leakage.

Can fill liquid sample to the maximum capacity



The scale is marked on the body. It's possible to fill liquid maximum capacity.

Characteristic Bottom shape



Idle rotation is prevented by characteristic bottom shape when using this.

Flat Cap



Writing space is available on the cap surface.

Cryotubes with Internal Thread Screwcaps

1.0 mL
Self Standing



Real scale



(tube only)
Length 28.5 mm
Maximum Diameter Φ 12.4 mm



2.0 mL
Self Standing



Real scale



(tube only)
Length 41.5 mm
Maximum Diameter Φ 12.5 mm



Able to store tube by using cane.

Material: Polypropylene (tube)
Polyethylene (cap)

*1 tube opener as tube accessories is attached per 500 tubes.

Cat. No.	Item	Unit	Case
1396-101S	1.0mL Cryotubes with Internal Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags
1396-201S	2.0mL Cryotubes with Internal Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags

Cryotubes with External Thread Screwcaps

1.0 mL
Self Standing



Real scale



(tube only)
Length 32.6 mm
Maximum Diameter Φ 12.5 mm



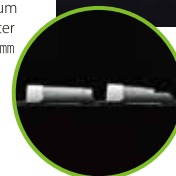
2.0 mL
Self Standing



Real scale



(tube only)
Length 45.6 mm
Maximum Diameter Φ 12.5 mm



Able to store tube by using cane. But complete storing the tube is obstructed by cap. *This is a general phenomenon.

Material: Polypropylene (tube)
Polyethylene (cap)

Cat. No.	Item	Unit	Case
1396-100S	1.0mL Cryotubes with External Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags
1396-200S	2.0mL Cryotubes with External Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags

Cryotube Cap Opener for Internal Thread

Internal Thread type is able to be closed tightly to have high sealing effect. However, there are cases that Internal Thread type close too tightly to open by hand.

At the time, Internal Thread type is able to be opened easily by using this opener.

Easy to open the cap without direct touch by hand.

***Only use for Cryotube with Internal Thread (1396-101S, 1396-201S).**



Real scale



(back side of cap)
There are grooves that is able to grip the cap certainly.



Material: Polypropylene

Cat. No.	Item	Unit
175-20B	Cryotube Cap Opener for Cryotubes with Internal Thread	5 pieces / bag

Cryotube Boxes

The cryotube box for 40 tubes.

*** NOT Autoclavable**



1568-100
Dimensions:
W125mm × D83mm × H42mm



1568-200
Dimensions:
W125mm × D83mm × H54mm

Material: Styrene Resin

Cat. No.	Item	Unit	Case
1568-100	Cryotube Box for 40 tubes, 1.0 mL	10 pieces	5 units
1568-200	Cryotube Box for 40 tubes, 2.0 mL	10 pieces	5 units

Cryotube Cap Opener / Cryotube Boxes