

Microtubes

Centrifuge Tubes

Screwcap Tubes

Cryotubes

Hyper Microtube





The Ultimate Microtube







[1.5 mL]

Material: 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: Polypropylene Centrifugal force: 20,000 xG (water 1.5 mL / 15 minutes) With scale (500 / 1000 / 1500 / 2000 $\mu L)$ 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
131-715CS-N	1.5 mL, Microtube with Locking-Cap, Round Bottom, Hard-Touch, Natural Sterilized	500 tubes (10 tubes×50 bags)	5 units
131-7155C	1.5 mL, Microtube with Locking-Cap, Round Bottom, Soft-Touch, Natural	1000 tubes / bag	10 bags
131-7155CS-N	1.5 mL, Microtube with Locking-Cap, Round Bottom, Soft-Touch, Natural Sterilized	500 tubes (10 tubes×50 bags)	5 units
132 - 620C	2.0 mL, Microtube with Locking-Cap, Round Bottom, Slight-Stiff-Touch, Natural	1000 tubes / bag	5 bags
132-620CS-N	2.0 mL, Microtube with Locking-Cap, Round Bottom, Slight-Stiff-Touch, Natural Sterilized	500 tubes (10 tubes×50 bags)	5 units

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.



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.

Microtubes

Microtube High-Seal



Pursuing a higher level of sealability.



Writing space
Flat cap allows marking on the top.



Flat bottom









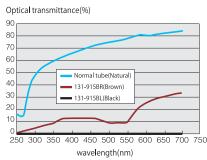
Material: Polypropylene Centrifugal force: 20,000 xG (water 1.0 mL / 15 minutes) With scale (200 / 1,000 µL) Flat top (with marking space) RNase/DNase/Human-DNA free

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
131-815CS-N	1.5 mL, Microtube, High-Seal, Flat Bottom, Slight-Stiff-Touch Cap, Natural	Sterilized	500 tubes (10 tubes × 50 bags)	5 units
131 - 8155C	1.5 mL, Microtube, High-Seal, Flat Bottom, Soft-Touch Cap, Natural		1000 tubes / bag	10 bags
131-8155CS-N	1.5 mL, Microtube, High-Seal, Flat Bottom, Soft-Touch Cap, Natural	Sterilized	500 tubes (10 tubes × 50 bags)	5 units



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: 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 - 915BL	-915BL 1.5 mL, Microtube, Flat Bottom, Slight-Stiff-Touch Cap, Black for Shading		10 bags
131-915BR	1.5 mL, Microtube, Flat Bottom, Slight-Stiff-Touch Cap, Brown for Shading	1000 tubes / bag	10 bags



Round Bottom Standard Microtube





Material: Polypropylene Centrifugal force:







Scale

Marking space available opposite the scale.

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

Cat. No	ltem		Unit	Case
130 - 806C	0.6 mL, Microtube, Round Bottom, Snap Cap, Natural		1000 tubes / bag	10 bags
130-806CS-N	0.6 mL, Microtube, Round Bottom, Snap Cap, Natural	Sterilized	500 tubes (10 tubes×50 bags)	_



Round Bottom "Mega" Tube















Material: 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

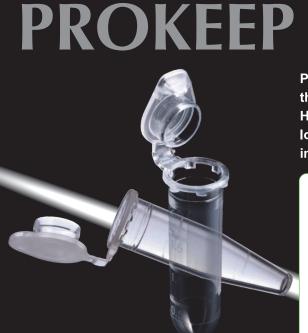


56.0 mm

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



The above sterilized products are packaged in sets of 10 each with the caps opened.



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).

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)

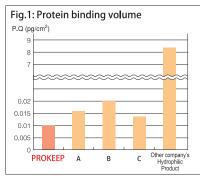
(2) Adsorption of protein and peptide to the tube: Fig 2

Test Method:

A solution (0.1%TFA, 10 μ L) equivalent to 500 fmol/ μ L 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 PROKEEPs 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

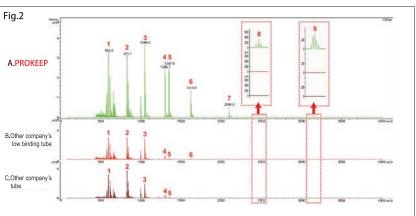


PROKEEP

hydrophilic treated tube Other company' 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). PROKEEPs low protein binding tube showed equivalent performance to the tube recommended by Bruker Daltonics.





Protein Low Binding Tube "PROKEEP"

Material: 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



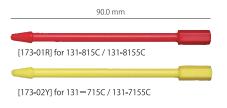




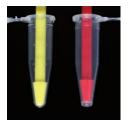
Cat. No.	Item	Unit	Case
PK-15C-500N	PROKEEP protein low binding tube 1.5 mL, Flat Bottom, Natural, Bulk pack	500 tubes / bag	20 bags
PK-20C-500	PROKEEP protein low binding tube 2.0 mL, Round Bottom, Natural, Bulk pack	500 tubes / bag	20 bags

Homogenizer Pestles

Special pestle for Watson brand microtubes



Material:Polypropylene





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

Centrifuge Tubes

Sealing point, Half plug seal, Triple thread screw The high airtightness is achieved through

these three specific innovations





*See the next page for details





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

[Test condition] Centrifuge: TOMY MX-305

Temp.: 20℃

Centrifugal force

Distilled Water: 12 mL for 15 mL CF tube

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

15 mL centrifuge tube: $18,000 \times G(14,100 \text{ RPM})$ 50 mL centrifuge tube: $18,000 \times G(14,100 \text{ RPM})$

40 mL for 50 mL CF tube

Rotor: AR-510-04 Centrifugation: 5 minutes





3	Cat. No.	Item		Unit
	1332 - 015S	15 mL, Centrifuge Tube, Conical Bottom, White Cap	teri l ized	480 pieces (48 pieces × 10 bags)
	1342 - 050S	50 mL, Centrifuge Tube, Conical Bottom, White Cap	terilized	480 pieces (24 pieces × 20 bags)
	1342 - 550S	50 mL, Centrifuge Tube, Self-standing, White Cap	terilized	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.



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



Half plug seal

Bigger sealing area performs higher airtightness.

Triple thread screw

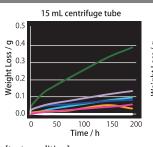
Triple thread screw enables easy open/close with less rotation. It also prevents screwing a cap diagonally.

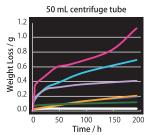


2) The left picture shows too much screwing when the protrusions go over the groove.

loosening the cap and sample

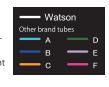
leakage when the protrusions





[test condition]

Fill centrifuge tube with 100% EtOH to 80% of the max. volume (12 mL for 15 mL tube, 40 mL for 50 mL tube). Place the tube upside-down under the room temperature and check weight loss with time.



40 35 ES

Convenient functions

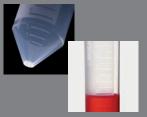
Wide writing space

t 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 cope



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.











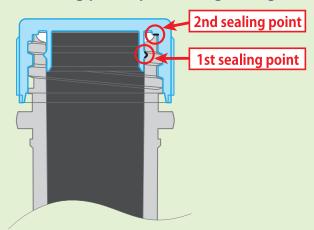
Cat. No.	ltem	Unit	
1541-809	Centrifuge Tube Floater Rack "Jellyfish"	1 piece	

Tubes

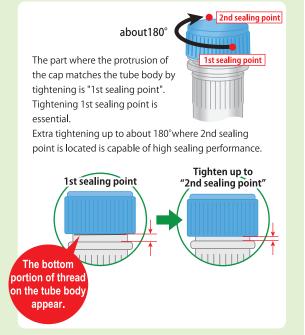
O-ring less Screwcap Tubes

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

Two sealing points provide high airtightness



1st sealing point where the protruding part is located inside of the cap makes the clearance between the cap and the body seal. By fully tightening the cap, 2nd sealing point makes both upper and main body seal completely seal, resulting in preventing test sample leakage and evaporation.



O-ring less Screwcap Tube is NOT autoclavable.

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



Durable for centrifugal force 20,000 xG*

Our originally designed tube proves resistance against a centrifugal force as high as $20,000 \times G$ (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.



Material: Polypropylene (tube)
Polyethylene (cap)

Centrifugal force: 17,000 x G
(water 0.5 mL / 15 minutes)

Flat top (with marking space)







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



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

Real scale







	_				Loop cap
Cat. No.	ltem		Cap color	Unit	Case
1394-150 - C	1.5 mL, O-ring less Screwcap Tube, Conical Bottom		clear	500 tubes	_
1394-150-B	1.5 mL, O-ring less Screwcap Tube, Conical Bottom		blue	500 tubes	_
1394-150-G	1.5 mL, O-ring less Screwcap Tube, Conical Bottom		green	500 tubes	_
1394-150 - R	1.5 mL, O-ring less Screwcap Tube, Conical Bottom		red	500 tubes	_
1394-150-Y	1.5 mL, O-ring less Screwcap Tube, Conical Bottom		yellow	500 tubes	_
1394-150-CS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	clear	500 tubes (20 tubes × 25 bags)	10 units
1394-150-BS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	blue	500 tubes (20 tubes×25 bags)	10 units
1394-150-GS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	green	500 tubes (20 tubes×25 bags)	10 units
1394-150-RS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	red	500 tubes (20 tubes×25 bags)	10 units
1394-150-YS	1.5 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized	yellow	500 tubes (20 tubes×25 bags)	10 units
1394-150-LP-C	1.5 mL, O-ring less Screwcap Tube attached Loop Cap, Conical Bottom		clear	500 tubes	_
1394-150-LP-CS	1.5 mL, O-ring less Screwcap Tube attached Loop Cap, Conical Bottom	Sterilized	clear	500 tubes (20 tubes × 25 bags)	10 units



Material: 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.	ltem		Cap color	Unit	Case
1394-150-SS-C	1.5 mL, O-ring less Screwcap Tube, Self-standing		clear	500 tubes	_
1394-150-SS-B	1.5 mL, O-ring less Screwcap Tube, Self-standing		blue	500 tubes	_
1394-150-SS-G	1.5 mL, O-ring less Screwcap Tube, Self-standing		green	500 tubes	_
1394-150-SS-R	1.5 mL, O-ring less Screwcap Tube, Self-standing		red	500 tubes	_
1394-150-SS-Y	1.5 mL, O-ring less Screwcap Tube, Self-standing		yellow	500 tubes	_
1394-150-SS-CS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	clear	500 tubes (20 tubes×25 bags)	10 units
1394-150-SS-BS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	blue	500 tubes (20 tubes×25 bags)	10 units
1394-150-SS-GS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	green	500 tubes (20 tubes×25 bags)	10 units
1394-150-SS-RS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	red	500 tubes (20 tubes×25 bags)	10 units
1394-150-SS-YS	1.5 mL, O-ring less Screwcap Tube, Self-standing	Sterilized	yellow	500 tubes (20 tubes×25 bags)	10 units
1394-150-SS-LP-C	1.5 mL, O-ring less Screwcap Tube attached Loop Cap, Self-standing		clear	500 tubes	_
1394-150-SS-LP-CS	1.5 mL, O-ring less Screwcap Tube attached Loop Cap, Self-standing	Sterilized	clear	500 tubes (20 tubes × 25 bags)	10 units



Material: 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.	ltem	Cap colo	Unit	Case
1394-200-C	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	clear	500 tubes	_
1394-200-B	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	blue	500 tubes	_
1394-200-G	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	green	500 tubes	_
1394-200-R	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	red	500 tubes	_
1394-200-Y	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	yellow	500 tubes	_
1394-200-CS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized clear	500 tubes (20 tubes×25 bags)	10 units
1394-200-BS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized blue	500 tubes (20 tubes×25 bags)	10 units
1394-200-GS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized green	500 tubes (20 tubes×25 bags)	10 units
1394-200-RS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized red	500 tubes (20 tubes×25 bags)	10 units
1394-200-YS	2.0 mL, O-ring less Screwcap Tube, Conical Bottom	Sterilized yellow	500 tubes (20 tubes×25 bags)	10 units
1394-200-LP-C	2.0 mL, O-ring less Screwcap Tube attached Loop Cap, Conical Bottom	clear	500 tubes	_
1394-200-LP-CS	2.0 mL, O-ring less Screwcap Tube attached Loop Cap, Conical Bottom	Sterilized clear	500 tubes (20 tubes × 25 bags)	10 units

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







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

Screwcap Opener



42.5 mm



Easy to open the cap without direct touch by hand.





O-ring less Screwcap Tubes / Screwcap Opener

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

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

Screwcap Tubes

Durable for centrifugal force 20,000 xG*



Our originally designed tube 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



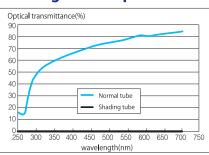
A marker (notch), which is convenient for positioning the tube during centrifugation and other purposes, is provided on the flange of the tube.

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
- 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.



Material: Polypropylene (tube, cap)

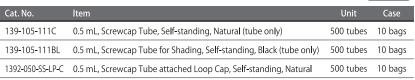
Silicone Rubber (O-ring: Please loosen the cap and autoclave) Centrifugal force: 17,000 x G (water 0.5 mL / 15 minutes) Flat top (with marking space)





Real scale

Real scale









Loop Cap

 Φ 13.2 mm



Material: 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
139-115-112C	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





Loop Cap

Ф13.2 mm





Material: 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

Cat. No.	İtem	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





139-120-112C

139-120-112BL

1392-200-LP-C

Material: Polypropylene (tube, cap)

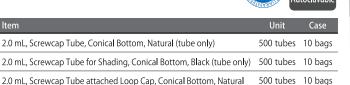
Silicone Rubber (O-ring: Please loosen the cap and autoclave) Centrifugal force: 20,000 x G (water 1.5 mL / 15 minutes) Flat top (with marking space)

2.0 mL, Screwcap Tube, Conical Bottom, Natural (tube only)

2.0 mL, Screwcap Tube attached Loop Cap, Conical Bottom, Natural









Loop Cap

Ф 13.2 mm

Ф13.2 mm



Material: 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) ase 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





Loop Cap

Autoclavabl

Screwcaps



6 Colors

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



Material. Folypropyrene (edp) Silicone Napoer (o mig)				
Cat. No.	ltem	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	

Cryotubes

Tubes

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

Cryotubes with Internal Thread Screwcaps











Length 28.5 mm Maximum Φ12.4 mm









Ф14.0 mm

(tube only) Length 41.5 mm Maximum Diameter Φ12.5 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
1396-1015	1.0 mL Cryotubes with Internal Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags
1396-2015	2.0 mL Cryotubes with Internal Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags

Cryotubes with External Thread Screwcaps











Material: Polypropylene (tube) Polyethylene (cap)

3	Cat. No.	ltem	Unit	Case
	1396 - 100S	1.0 mL Cryotubes with External Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags
1	1396-200S	2.0 mL Cryotubes with External Thread Screwcaps, Self-standing Sterilized	20 pieces / bag	25 bags

Cryotube Cap Opener

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.

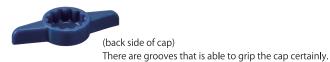
At the time, Internal Thread type is able to be opened easily by using this opener.

Easy to open the cap without direct touch by hand.

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









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