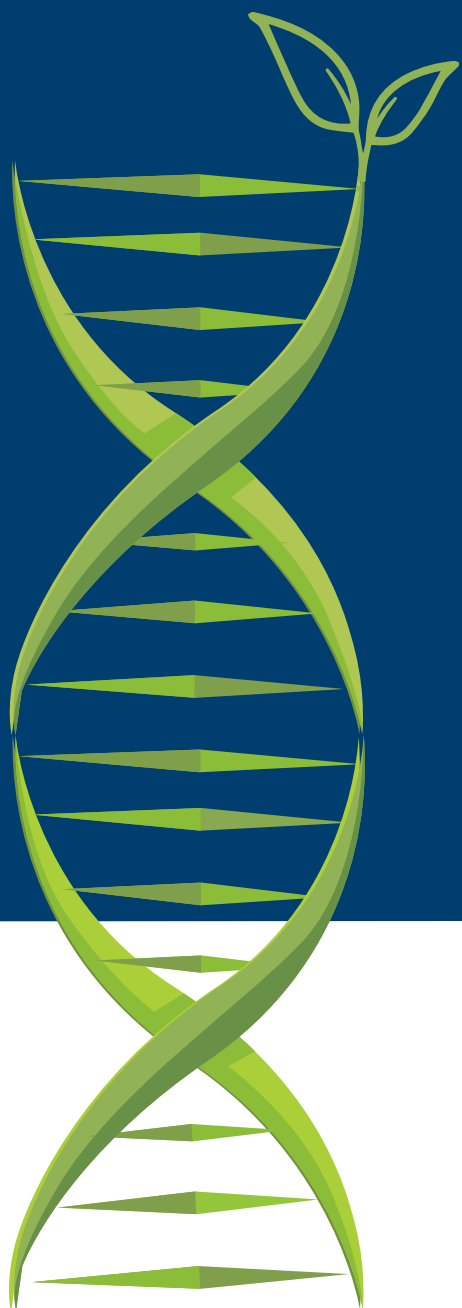




Biosigma
Dutscher group

BIOSIGMA CATALOGUE



B2BIO
From Biotechnology to What?

ABOUT US

Biosigma사 소개

Biosigma는 1988년에 설립되었으며 이탈리아 베네치아 인근에 위치하고 있습니다. Biosigma사는 12,000m² 이상의 규모를 자랑하며, 이곳에서 카탈로그에 포함된 수많은 제품들을 직접 생산하고 있습니다. 최첨단 기계설비와 혁신적인 자동화 시스템, 그리고 두 개의 클린룸(Clean rooms)을 갖춘 생산 라인은 Human & Bacteria DNA, DNase, RNase, Bacteria Endotoxin, PCR 및 ATP Inhibitors Free한 우수한 제품을 보장하도록 설계되었습니다.

Biosima사는 프랑스 Dominique Dutscher 그룹의 일원으로서, 유럽 최대의 재고 보유량과 전문 네트워크를 통해 연구 효율을 극대화하는 최상의 소모품과 장비를 공급합니다

한국독점 대리점 : 비투바이오(주)



The Italian brand synonymous with quality and innovation whilst respecting the environment



Dutscher Europe, the strength of a group

- One of the largest stocks of consumables and scientific instruments in Europe
- A fast, accurate logistics service, suitable for all customers
- A technical-commercial team close to you for advice
- A complete and intuitive catalogue and website, high-performance e-business tools
- Strong values of respect and pursuit of excellence
- Continuous research into new high-quality products



CERTIFICATIONS

"Biosigma has always been focused on the safety and quality of its work by achieving the most important certifications"

ISO 13485

ISO 13485 인증, 의료기기 품질·안전 국제표준 QMS 준수. 의료 분야의 규제와 시장 기준에 맞춘 최상의 제품과 서비스를 제공하기 위해, Biosigma 사는 품질 인증 시스템을 바탕으로 조직 정책을 철저히 준수하고 있습니다.

ISO 14001

관련 법규 준수와 지속적인 개선을 통해 기업 활동의 환경 영향을 체계적으로 관리하는 시스템입니다. 이를 통해 Biosigma사는 환경 문제에 더욱 능동적이고 선제적으로 대응하고 있습니다.

ISO 45001

본 인증은 세계 최초의 국제 산업 안전보건 표준입니다. Biosigma사는 이를 통해 모든 임직원과 방문객에게 건강하고 안전한 일터를 제공하는 것을 최우선 과제로 삼고 있습니다. 특히 근로자의 신체적 건강은 물론 정신적 웰빙을 위협하는 위험요소를 사전에 파악하고 제거함으로써, 안전한 경영환경을 구축하고 있습니다.

FDA - Registration Number: 3002945499

The manufacturing plant and the Biosigma IVD devices are registered with the FDA (Food and Drug Administration).

We prefer Green

- 에너지: 자가 발전된 태양광 에너지를 제외한 모든 구매 전력은 100% 재생 가능 에너지원에서 생산됩니다. 포장재: 제품 포장에 사용되는 포장재의 90%는 FSC (국제산림관리협 의회) 인증을 받은 것으로, 책임 있게 관리되는 산림에서 유래한 원료를 사용합니다.
- 카탈로그: 재생 및 재활용이 가능한 종이와 목재 기반의 재생 가능 자원을 사용하며, 무독성 잉크로 인쇄됩니다.
- 전기차 시설: 모든 인원이 무료로 이용할 수 있는 전기차 충전 스테이션 6면을 운영하고 있습니다.
- 친환경 제품(Greener items): 플라스틱 사용 감소, 포장 최소화, 재활용 가능 포장, 저전력 장비, 재활용 폐기물, 수리가 용이한 장비 등을 우선적으로 선택하고 장려합니다. 이러한 제품은 카탈로그와 공식 웹사이트(www.biosigma.com)에서 'Go-Green' 로고를 통해 확인하실 수 있습니다.
- 조명: 공장 내 조명은 100% LED로 설치되어 있습니다.



Other initiatives for the environment





CryoGen[®] Tube (Cryo Vial)



Microcentrifuge Tube



Screw Cap Tube

CryoGen[®] Tube

(Cryo Vial)



Cryogen[®] Tube

Biosigma는 액체질소 보관에 적합한 크라이오 튜브와 박스를 포함한 풀 라인업의 제품을 제공합니다.

CryoGen[®] 제품구성

- CryoGen[®] 1D Cryo tubes with linear barcode
- CryoGen[®] Box
- CryoGen[®] 2D barcoded Cryo tubes
- CryoGen[®] Box 2D
- SBS 48-place rack for 2 and 5 ml CryoGen[®] Tubes
- Accessories

CLEARLine[®] Grade



- Human DNA, DNase, RNase, Endotoxins, PCR Inhibitors Free
- Sterile SAL 10-6 및 IATA PI 650 규정을 준수
- 미량 금속 성분을 포함하지 않음
- 바코드 시스템 (1D): 튜브 본체에 1D 바코드가 인쇄
- 2D CryoGen[®] 라인업: 기존 1D 바코드 외에도 튜브 하단에 2D 매트릭스 코드가 추가
- 보관용 박스: 25구, 81구, 100구용 박스
(박스 측면에는 1D 바코드가, 2D 전용 박스 하단에는 2D 매트릭스 코드가 인쇄)
- 내구성 및 멸균: Cryo Box는 폴리카보네이트(PC) 재질로 제작
- 121°C에서 20분간 Autoclave 가능
- 원료 인증: Medical grade, USP Class VI 및 ISO 10993



WARNING

Do not dip Cryogen test tubes in the liquid phase of nitrogen. Immersion in the liquid phase may cause liquid nitrogen to become trapped inside the tube, which could lead to an increase in pressure, causing a possible explosion with risk of biological contamination. Make sure samples in the gas phase are stored above the liquid nitrogen. In this state the temperature is below the level required to maintain the material in good condition.

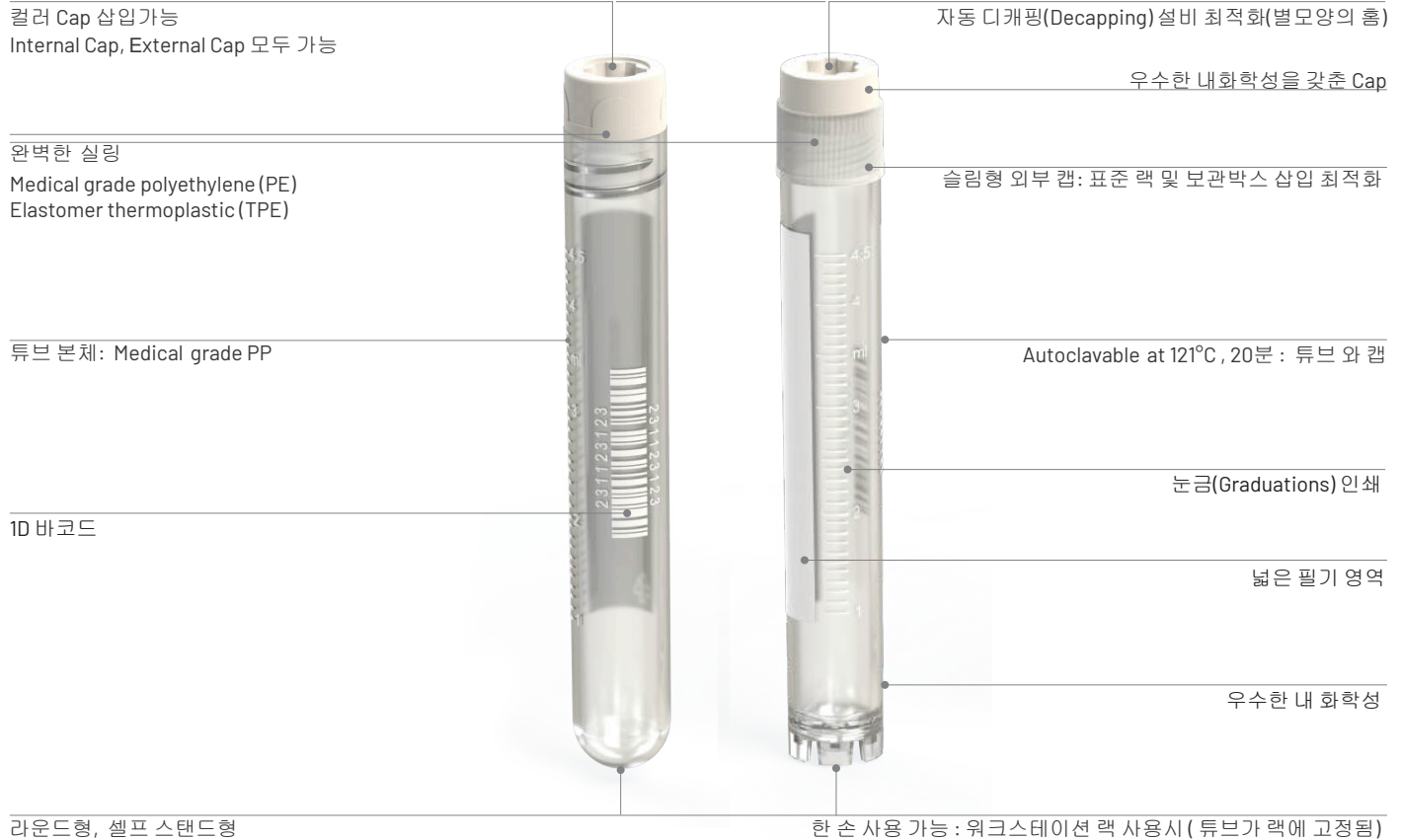
CryoGen[®] 1D Cryo tubes with linear barcode

CLEARLine[®]



* Certificate of Analysis downloadable from our website
www.biosigma.com
** Validated beta-ray treatment certificate, downloadable
from our website

- Certified free from human DNA, DNases, RNases, Endotoxin, ATP and PCR inhibitors*
- Sterile SAL 10⁻⁶ **
- Compliant with IATA regulation PI 650
- Working temperatures: from generic refrigeration (+4°C) up to the gaseous phase of liquid nitrogen
- Medical grade materials
- Test tube body in polypropylene, bi-injected caps in polyethylene and TPE
- No traces of metals found within the detection limits



500-piece dispenser box
(10 50-piece zip-bags)



50-piece zip-bags with indication of
sterilisation

CryoGen[®] 1D Cryo tubes
with linear barcode

CryoGen[®] Cryo tubes with internal cap
Sterile, free from DNases, RNases, human DNA, ATP,
Endotoxins, PCR inhibitors and Metals

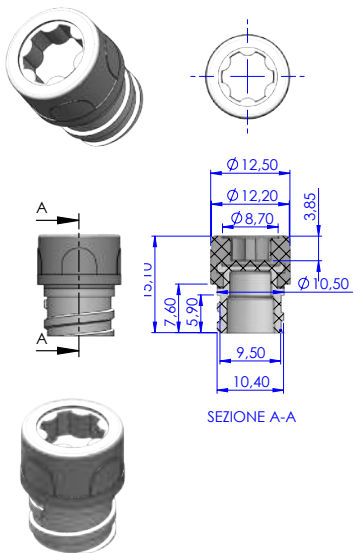


Code	Vol. (ml)	Height (cm)	Bottom	Units/Bags	Sales units
CL1ARBIPSTS	1.2	4.27	Self-standing	50	500
CL2ARBIPSTS	2.0	4.82	Self-standing	50	500
CL2ARIPSTS	2.0	4.70	Round bottom	50	500
CL4ARBIPSTS	4.0	7.62	Self-standing	50	500
CL4ARIPSTS	4.0	7.50	Round bottom	50	500
CL5ARBIPSTS	5.0	9.03	Self-standing	50	500
CL5ARIPSTS	5.0	8.92	Round bottom	50	500

CryoGen[®] Cryo tubes with external cap
Sterile, free from DNases, RNases, human DNA, ATP, Endotoxins,
PCR inhibitors and Metals



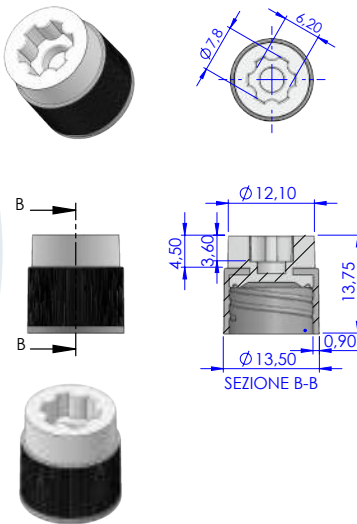
Code	Vol. (ml)	Height (cm)	Bottom	Units/Bags	Sales units
CL1ARBEPSTS	1.2	4.02	Self-standing	50	500
CL2ARBEPSTS	2.0	4.56	Self-standing	50	500
CL2AREPSTS	2.0	4.45	Round bottom	50	500
CL3ARBEPSTS	3.0	6.92	Self-standing	50	500
CL4ARBEPSTS	4.0	7.36	Self-standing	50	500
CL5ARBEPSTS	5.0	8.76	Self-standing	50	500



For automatic capper/decapper
자동 캐핑/디캐핑(Decapping) 장비가능
최적화(별모양의 홈)

No risk of contamination
이중 사출 성형 캡(Bi-injected cap)으로 오링 없이
완벽한 밀폐를 실현하고 샘플 오염 및 누수를 원천 차단

Insert for color coding
샘플 식별용 컬러 인서트(내/외부 캡 공용)



 All CLEARLine[®] cryogenic tubes with
standard barcode on this page are available
with coloured caps.

Add the following suffixes to the references when
ordering:

						
Colour	Light Blue	White	Yellow	Red	Purple	Green
Suffix	/AZ	/BI	/G	/R	/VI	/V
For example	CL1ARBEPSTS/AZ	CL1ARBEPSTS/BI	CL1ARBEPSTS/G	CL1ARBEPSTS/R	CL1ARBEPSTS/VI	CL1ARBEPSTS/V

CryoGen[®] Box

- 용도: CryoGen[®] 1D 튜브 보관용
- 4가지 색상 선택가능(Grid)
- 박스 측면 레이저 각인 바코드(Code 128) 적용
- 뚜껑 설계: 오결합 방지용 45° 경사 모서리
- 필기 영역: 뚜껑과 바닥면에 서명/기록이 용이한 반투명(Frosted) 필기란 배치
- 사용 온도 범위: 일반 냉장(+4°C)부터 액체 질소 기상(Gaseous phase)까지 사용 가능
- 멸균: 121°C에서 20분간 오토클레이브(고압 증기 멸균) 가능
- 박스 측면 레이저 각인 바코드(Code 128) 적용
- 뚜껑 및 바닥면에 숫자 그리드(Grid) 표시

Printed numerical grid on the lid



Frosted writing area



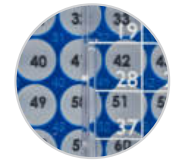
Vial picker included in each sales unit



1D barcode lasered on rack's side



Numerical grid on the bottom and on the lid



1D, 1~2ml tube/ 81 hole



CryoGen[®] Box 81 LOW standard and 1D barcoded for 1 - 2 ml tubes, external and internal cap

Code	1D	Colour	Dimensions (mm)	Sales units
BSM58061B/AZ		Light Blue	132 x 132 x 52	40
BSM58061B/RO		Red		40
BSM58061B/V		Green		40
BSM58061B/G		Yellow		40
BSM58061B1D/AZ	X	Light Blue	132 x 132 x 52	40
BSM58061B1D/G	X	Yellow		40
BSM58061B1D/RO	X	Red		40
BSM58061B1D/V	X	Green		40

1D, 3~5ml tube/ 81 hole



CryoGen[®] Box 81 HIGH standard and 1D barcoded for 3 - 4 - 5 ml tubes external cap and 5 ml internal cap

Code	1D	Grid colour	Dimensions (mm)	Sales units
BSM58071B/AZ		Light Blue	132 x 132 x 94	32
BSM58071B/G		Yellow		32
BSM58071B/RO		Red		32
BSM58071B/V		Green		32
BSM58071B1D/AZ	X	Light Blue		32
BSM58071B1D/G	X	Yellow	132 x 132 x 94	32
BSM58071B1D/RO	X	Red		32
BSM58071B1D/V	X	Green		32

1D, 1~2ml tube/ 25 hole



CryoGen[®] Box 25 standard and 1D barcoded for 1 - 2 ml tubes, external and internal cap

Code	1D	Colour	Dimensions (mm)	Sales units
BSM58025B/AZ		Light Blue	76 x 76 x 52	48
BSM58025B/RO		Red		48
BSM58025B/V		Green		48
BSM58025B/G		Yellow		48
BSM58025B1D/AZ	X	Light Blue	76 x 76 x 52	48
BSM58025B1D/RO	X	Red		48
BSM58025B1D/V	X	Green		48
BSM58025B1D/G	X	Yellow		48

1~2ml tube/ 100 hole



CryoGen[®] Box 100 standard and 1D barcoded for 1 - 2 ml tubes, internal cap

Code	1D	Colour	Dimensions (mm)	Sales units
BSM58100/AZ		Light Blue	132 x 132 x 52	40
BSM58100/B		White		40
BSM58100/G		Yellow		40
BSM58100/RO		Red		40
BSM58100/V		Green		40
BSM581001D/B	X	White	132 x 132 x 52	40

CryoGen[®] 2D barcoded Cryo tubes



- Certified free from human DNA, DNases, RNases, Endotoxin, ATP and PCR inhibitors*
- Sterile SAL 10⁻⁶ **
- Compliant with IATA regulation PI 650
- Working temperatures: from generic refrigeration (+4°C) to the gaseous phase of liquid nitrogen

- No traces of metals found within the detection limits
- Made of medical grade materials
- Test tube body in polypropylene, bi-injected caps in polyethylene and TPE
- Autoclavable at +121°C for 20 minutes

* Certificate of Analysis downloadable from our website www.biosigma.com
** Validated beta-ray treatment certificate, downloadable from our website

CryoGen[®] 2D Cryo tubes with internal cap

Sterile, free from DNases,
RNases, human DNA,
ATP, Endotoxins and
PCR inhibitors



CryoGen[®] 2D Cryo tubes with external cap

Sterile, free from DNases,
RNases, human DNA,
ATP, Endotoxins
and PCR inhibitors



Code	Vol. (ml)	Height (cm)	Units/Bags	Sales units
CL2ARBIPS2D	2.0	4.82	50	500
CL5ARBIPS2D	5.0	9.03	50	500

Code	Vol. (ml)	Height (cm)	Units/Bags	Sales units
CL2ARBEPS2D	2.0	4.56	50	500
CL5ARBEPS2D	5.0	8.76	50	500

CryoGen[®] box 2D

- 용도: CryoGen[®] 2D 튜브 보관용
- 박스 측면 레이저 각인 바코드(Code 128) 적용
- 박스 하단 2D 데이터매트릭스(Datamatrix) 바코드: 랙 인식 및 방향 식별용
- 뚜껑 설계: 오결합 방지용 45° 경사 모서리
- 필기 영역: 뚜껑과 바닥면에 서명/기록이 용이한 반투명(Frosted) 필기란 배치
- 사용 온도 범위: 일반 냉장(+4°C)부터 액체 질소 기상(Gaseous phase)까지 사용 가능
- 멸균: 121°C에서 20분간 오토클레이브(고압 증기 멸균) 가능
- 박스 측면 레이저 각인 바코드(Code 128) 적용
- 뚜껑 및 바닥면에 숫자 그리드(Grid) 표시

Automatic rack orientation



One-handed opening



Numbered grid and lid



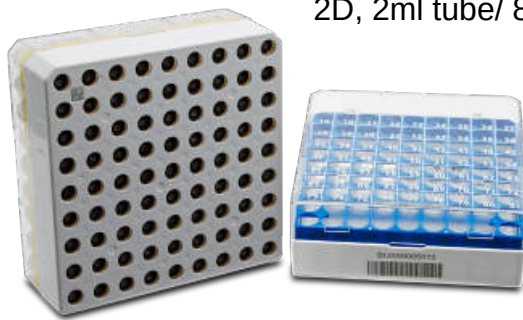
Frosted writing area



Barcode on the side of the rack



2D, 2ml tube/ 81 hole



81-place 2D box, low bottom

Box 81 LOW pad printed grid lid 2D for 2 ml tubes

Code	Places	Colour	Dimensions (mm)	Sales units
BSM580612D/AZ	81	Light Blue	132 x 132 x 52	40
BSM580612D/RO	81	Red		
BSM580612D/V	81	Green		
BSM580612D/G	81	Yellow		

2D, 5ml tube/ 81 hole

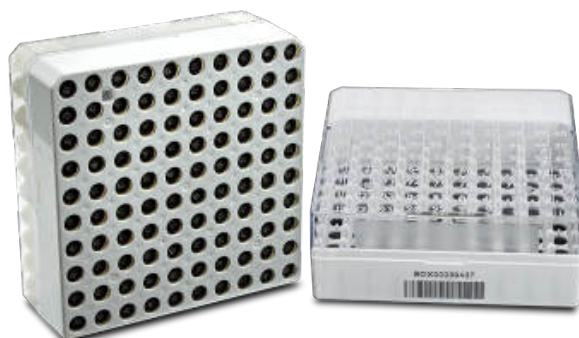


81-place 2D box, high bottom

Box 81 HIGH pad printed grid lid 2D for 5 ml tubes

Code	Places	Colour	Dimensions (mm)	Sales units
BSM580712D/AZ	81	Light Blue	132 x 132 x 94	32
BSM580712D/RO	81	Red		
BSM580712D/V	81	Green		
BSM580712D/G	81	Yellow		

2D, 2ml tube/ 100 hole



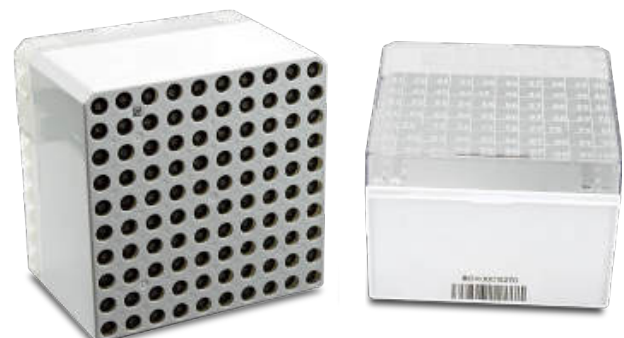
100-place 2D box, low bottom

Box 100 LOW pad printed grid lid 2D for 2 ml tubes, internal cap

Code	Places	Colour	Dimensions (mm)	Sales units
BSM581002D/B*	100	White	132 x 132 x 52	40

*Only compatible with test tubes with internal cap

2D, 5ml tube/ 100 hole



100-place 2D box, high bottom

Box 100 HIGH pad printed grid lid 2D for 5 ml tubes, internal cap

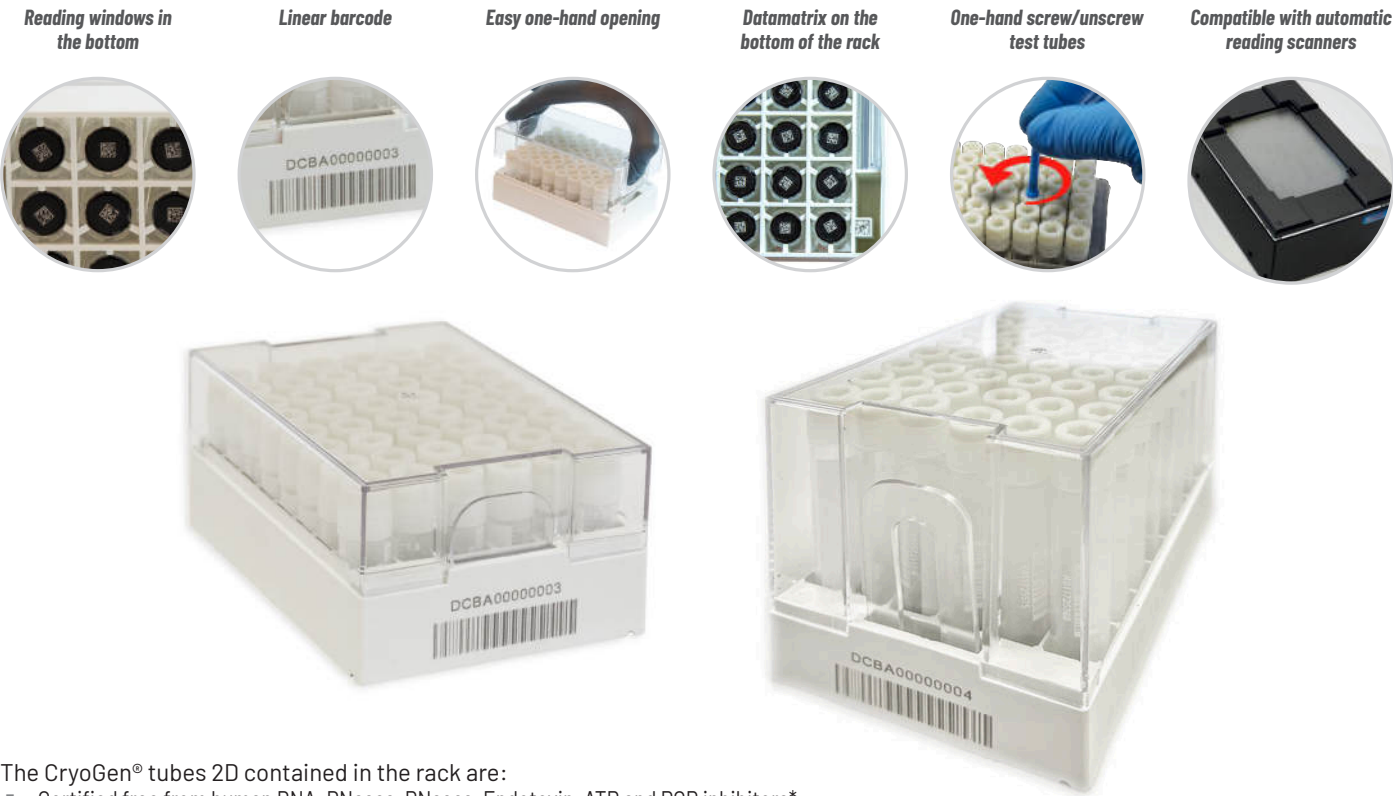
Code	Places	Colour	Dimensions (mm)	Sales units
BSM581052D/B*	100	White	132 x 132 x 94	32

*Only compatible with test tubes with internal cap

SBS 48-place rack for 2 and 5 ml CryoGen[®] Tubes

48-place storage rack in ANSI standard format.

- 스캔용 하단 창(Windows): 튜브 바닥의 2D 데이터매트릭스 스캔이 가능하도록 설계된 하단 창
- 랙 바코드 시스템: 측면 리니어 바코드(Linear barcode) 및 하단 2D 데이터매트릭스(방향 식별용) 적용
- 이지 오픈(Easy one-hand opening): 측면 플랩(Flaps) 설계로 한 손으로도 쉽게 개폐 가능
- 자동화 호환: 자동 디캐퍼(Automatic decapper) 및 스캐너 장비 사용 가능
- 재질: 폴리카보네이트(Polycarbonate)
- 적재: 적층식 보관(Stackable) 가능



- The CryoGen[®] tubes 2D contained in the rack are:
- Certified free from human DNA, DNases, RNases, Endotoxin, ATP and PCR inhibitors*
 - Sterile SAL 10⁻⁶ **
 - Compliant with IATA regulation PI 650
 - Working temperatures: from generic refrigeration (+4°C) to the gaseous phase of liquid nitrogen
 - No traces of metals found within the detection limits
 - Made of medical grade materials
 - Test tube body in polypropylene, bi-injected caps in polyethylene and TPE
 - Autoclavable at +121°C for 20 minutes

* Certificate of Analysis downloadable from our website www.biosigma.com
** Validated beta-ray treatment certificate, downloadable from our website
For further information, please refer to the technical data sheet downloadable from our website www.biosigma.com

48-place SBS rack with CryoGen[®] 2D test tubes

Code	Description	Sales units
BSM58048HI	48-place rack with 5 ml CryoGen [®] 2D test tubes with base - internal cap	10
BSM58048HE	48-place rack with 5 ml CryoGen [®] 2D test tubes with base - external cap	10
BSM58048LI *	48-place rack with 2 ml CryoGen [®] 2D test tubes with base - internal cap	20
BSM58048LE *	48-place rack with 2 ml CryoGen [®] 2D test tubes with base - external cap	20

Empty 48-place SBS racks

Code	Description	Sales units
BSM58048H	48-place rack for 5 ml CryoGen [®] Tubes 2D	10
BSM58048L	48-place rack for 2 ml CryoGen [®] Tubes 2D	20

* The rack filled with 2 ml CryoGen 2D tubes, is compatible with the Hamilton LabElite ID decapper



Accessories

Coated cardboard rack

- Dimensions: 133 x 133 mm
- With writing area on the lid
- For freezing down to -196°C



Code	Colour	Height (mm)	Grid	Sales units
010185	White	75	81	1
010186	White	75	100	1
010179	Assorted	50	81	5
010181	Assorted	50	100	5

CLEARLine[®] white cryogenic box in cardboard

- In hydrophobic cardboard
- Supplied with separators
- Dimensions (mm): 133 x 133 x 50
- 100-place boxes compatible with 0.5/1/2 ml microtubes
- 81-place boxes compatible with CLEARLine[®] 1/2 ml cryogenic tubes
- Storage temperature: from -196°C to +121°C
- Writable

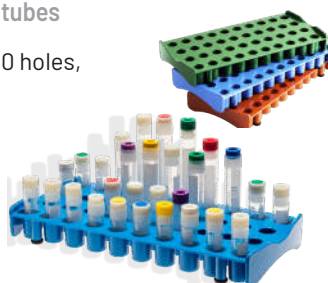


Code	Grid	Sales units
972015	81	1
972016	100	1

Workstation for 40 Cryogen[®] test tubes

CryoGen[®] test tube Workstation, 40 holes, polycarbonate.
To screw/unscrew test tubes directly on the bench with one hand.

- Available in 3 colours
- In polycarbonate
- Autoclavable
- Housing for 40 test tubes



Code	Colour	Dimensions (mm)	Sales units
BSM5810/AZ	Blue	L 21.5 D 10.0 H 2.50	5
BSM5810/RO	Red	L 21.5 D 10.0 H 2.50	5
BSM5810/V	Green	L 21.5 D 10.0 H 2.50	5

Writable Cap-Disks

- Available in 6 colours
- Can be used with CryoGen[®] test tube caps



Code	Colour	Sales units
CRY910TS/BI	White	1000
CRY910TS/AZ	Blue	1000
CRY910TS/G	Yellow	1000
CRY910TS/RO	Red	1000
CRY910TS/V	Green	1000
CRY910TS/VI	Purple	1000

Vial Picker

- Useful for recovering frozen Cryogen[®] test tubes
- Allows you to screw/unscrew the Cryogen[®] test tubes with 1 hand



Code	Colour	Sales units
CRY920TS	Blue	600

Cryomarkers

- 4 colours available
- Ideal for writing on cryogenic tubes, cryogenic boxes and cryogenic supports
- Blue, red, green and black with extra fine tip
- Green with standard tip



Code	Description	Sales units
028123	Pack of 4 cryomarkers, assorted colours (green, blue, red, black)	4
028124	Pack of 4 black cryomarkers	4

Cryogenic tube and goblet holder

- Aluminium shaft that can hold 3 - 6 cryogenic tubes depending on their height. Length: 28 cm



Code	Description	Sales units
055030	Nunc storage rod Aluminium	50

Cryoflex sheath

Sheath for cryotubes, to be soldered to prevent liquid nitrogen ingress and tube explosion during immersion.



Code	Description	Sales units
055029	Sheath cryoflexNunc for cryotubes	15

Cryogenic Gloves

Features of standard model:

- Applications: Ultra-cold
- Ultra-low temperature freezers
- Cold room
- Dry ice handling



	SMALL (S)	MEDIUM (M)	LARGE (L)	EXTRA LARGE (XL)	Sales units
5 fingers 30 cm	035501	035502	035503	035504	1
5 fingers 38 cm	035505	035506	035507	035508	1
5 fingers 50 cm	035509	035510	035511	035512	1
5 fingers 68 cm	035513	035514	035515	035516	1

CLEARStable®

Reliable and stable microbial preservation system

CLEARStable®은 세균 및 미생물 배양체의 냉동 및 장기보존을 위한 혁신적인 시스템입니다.

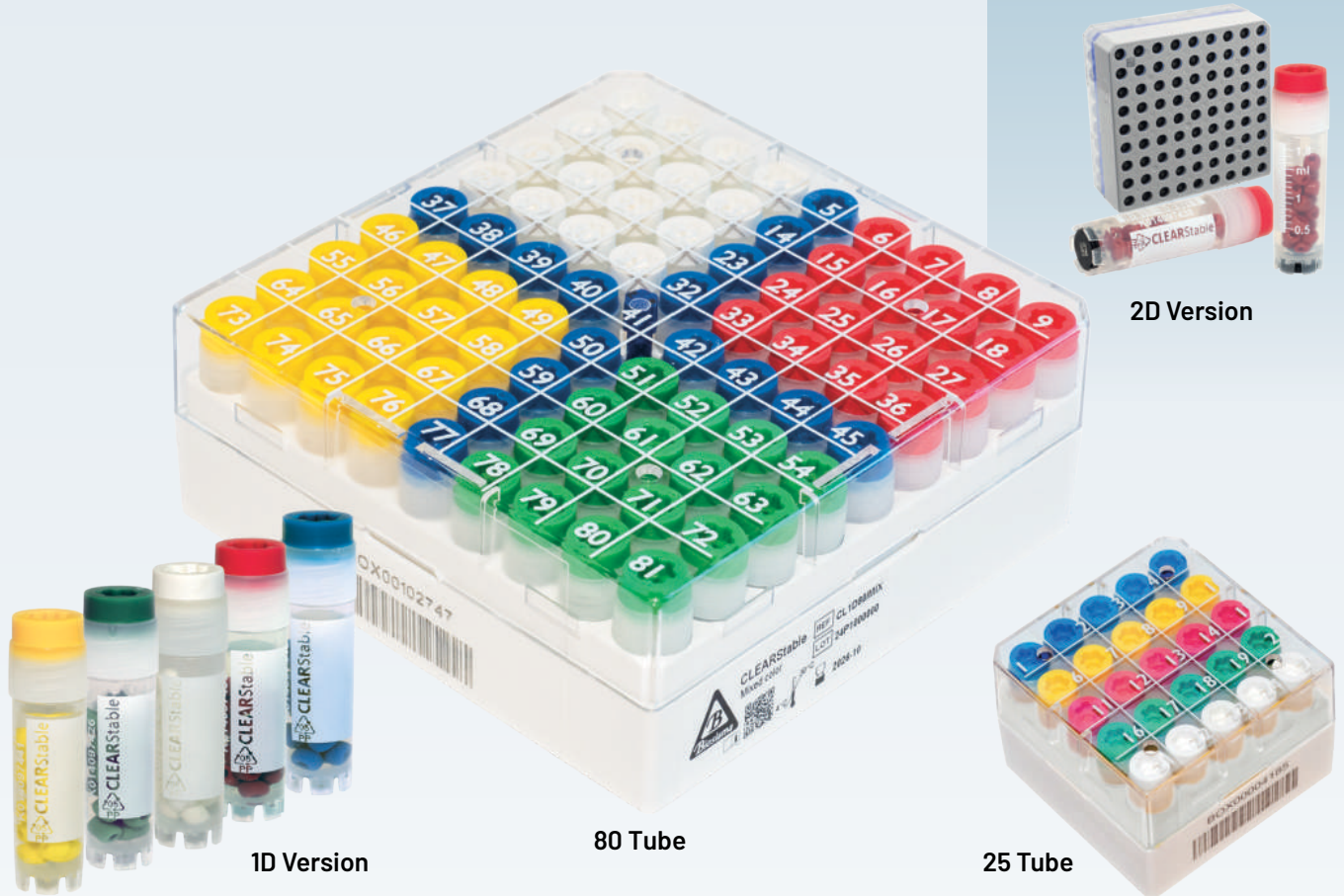
이 시스템은 동결 건조나 빈번한 계대 배양(transfer)의 번거로움을 없애도록 설계되었으며, 배양체의 최적 보존 상태를 보장합니다.

- 80개의 멸균 Vial과 Picker가 포함된 크라이오 박스(cryobox)
- 25개의 멸균 바이알이 포함된 크라이오 박스 (피커 미포함)

각 바이알에는 글리세롤 기반의 동결 보존액 1 ± 0.1 ml와 함께 20 ± 1개의 다공성 비드가 들어 있습니다. (멸균 테스트 완료)

CLEARStable® 저온 환경에서 박테리아, 포자, 곰팡이 등을 최적으로 보존하며, 미생물의 생존력과 유전적 안정성을 유지해 줍니다. 미생물 실험실, 연구소 및 바이오 테크놀로지 생산 현장에서 사용하기에 이상적입니다.

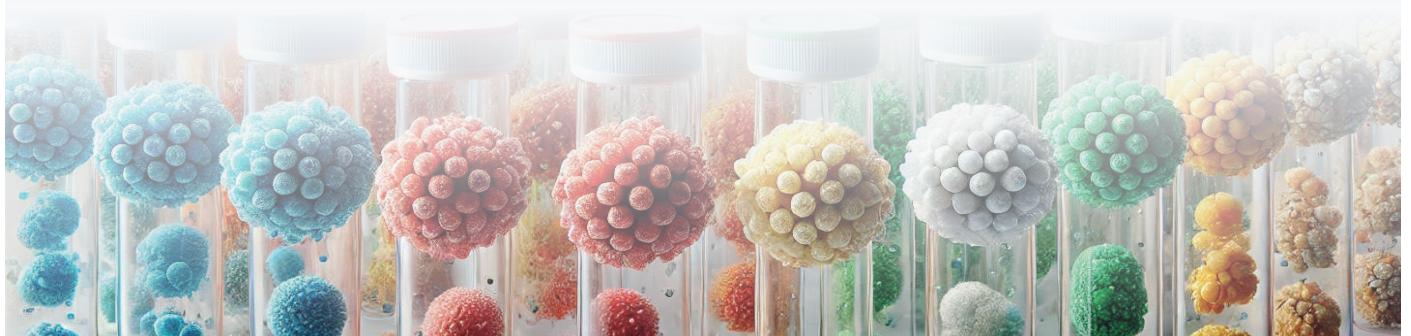
*Optimize the
stability and
preservation
of your
microorganisms
with CLEARStable®!*



1D Version

80 Tube

25 Tube

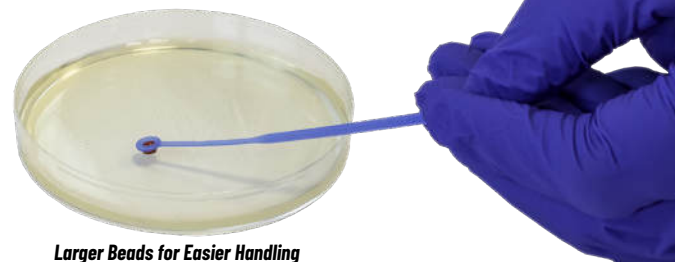


- 장기보존: 미생물의 생존력과 안정성을 장기간 보장
- 큰 Bead로 제작되어 실험이 용이함
- 다양한 냉동옵션: -20도, -80도 또는 Nitrogen Vapour 보관가능
- 취급이 용이한 대형 비드: 조작이 간편하여 작업 효율성 향상
- 간편한 식별: Cap과 Bead의 다양한 색상으로 샘플 식별 용이
- 유연한 옵션: 동결 보존제 포함 여부 선택가능, 1D 또는 2D 바코드 옵션
- 주문제작 가능



Advantages

- Extended and stable Preservation
- Multiple Freezing Temperatures
- Easy Handling
- Color-coded identification
- Customizable Options



Larger Beads for Easier Handling

CLEARStable® 1D barcoded tube 2ml

Code	Colour	With cryoprotectant	Sales units
CL1D80/AZ	Blue	X	80 vials
CL1D80/G	Yellow	X	80 vials
CL1D80/RO	Red	X	80 vials
CL1D80/V	Green	X	80 vials
CL1D80/BI	White	X	80 vials
CL1D80/MIX	Mixed colour	X	80 vials

CLDR1D80/AZ	Blue		80 vials
CLDR1D80/G	Yellow		80 vials
CLDR1D80/RO	Red		80 vials
CLDR1D80/V	Green		80 vials
CLDR1D80/BI	White		80 vials
CLDR1D80/MIX	Mixed colour		80 vials

CL1D25/AZ	Blue	X	25 vials
CL1D25/G	Yellow	X	25 vials
CL1D25/RO	Red	X	25 vials
CL1D25/V	Green	X	25 vials
CL1D25/BI	White	X	25 vials
CL1D25/MIX	Mixed colour	X	25 vials

CLDR1D25/AZ	Blue		25 vials
CLDR1D25/G	Yellow		25 vials
CLDR1D25/RO	Red		25 vials
CLDR1D25/V	Green		25 vials
CLDR1D25/BI	White		25 vials
CLDR1D25/MIX	Mixed colour		25 vials

CLEARStable® 2D barcoded tube 2ml

Code	Colour	With cryoprotectant	Sales units
CL2D80/AZ	Blue	X	80 vials
CL2D80/G	Yellow	X	80 vials
CL2D80/RO	Red	X	80 vials
CL2D80/V	Green	X	80 vials
CL2D80/BI	White	X	80 vials
CL2D80/MIX	Mixed colour	X	80 vials

CLDR2D80/AZ	Blue		80 vials
CLDR2D80/G	Yellow		80 vials
CLDR2D80/RO	Red		80 vials
CLDR2D80/V	Green		80 vials
CLDR2D80/BI	White		80 vials
CLDR2D80/MIX	Mixed colour		80 vials

Rack 1D Only

Code	Description	Sales units
BSM58061B1D/AZ	1D cryo BOX 81 places in PC, Blue grid	5 pcs

Rack 2D Only

Code	Description	Sales units
BSM580612D/5AZ	2D Cryobox 81 places in PC, Blue grid	5 pcs

SUSTAINABILITY



Our commitment to sustainable development and environmental protection



Photovoltaic systems

Since 2011, Biosigma has installed a photovoltaic system that now generates 740,000 kWh per year and prevents the emission of 450,000 kg CO₂ per year.



ISO 14001

Biosigma has successfully kept its UNI EN ISO 14001 environmental certification since 2013.



Treedom

Treedom® is the first platform in the world that allows you to plant a tree remotely and follow the history of the project online. Through this platform, Biosigma has already planted 500 trees in different areas of the world.



CONAI

Biosigma is a member of CONAI, a private non-profit consortium created to increase packaging recovery and recycling.



ISCC

Biosigma is ISCC Plus certified, a voluntary process applicable to the bioeconomy and to the circular economy for food, feed, chemical products, plastic, packaging, textile products and renewable raw materials derived from a process that uses sustainable energy sources.



ESG

Biosigma is working to adopt the ESG (Environmental, Social and Governance) criteria; these are three fundamental dimensions to verify, measure and control the Company's commitment to sustainability. This involves adopting measures to reduce pollution, CO₂ emissions and waste. It also means having a diverse and inclusive workforce, from entry into the company to the board of directors.

SUSTAINABILITY PARTNER



Ogyre

We directly support Ogyre in the Fishing for litter project. Ogyre supports fishing communities by providing funding that allows them to recover waste from the sea during normal fishing operations. The waste collected is then gathered, separated and disposed of correctly.



E-Bike

In 2023 we started a sustainability project that provides some e-bikes to employees for home-work travel. The goal is to reduce air pollution and traffic congestion, promoting the culture of sustainable mobility and the use of zero-impact means of transport for daily travel.

Micro Centrifuge Tubes





Standard, ClearLine® Tube 제품 특성 (공통)

- Made of transparent Polypropylene (PP)
- Non-sterile
- Flat cap design with excellent sealing
- Pierceable and writable cap
- Writing area on tube body
- Clear graduation
- Centrifugation resistance up to 25,000xg
- Suitable for freezing up to -80 °C
- Autoclavable open at +121 °C for 20min
- Zip-bags, resealable



두 시리즈 모두 높은 품질의 제품입니다.
사용 환경에 필요한 오염 관리 수준에 따라
적합한 제품 을 선택하세요

1. Standard Microtube

Reliable solution for routine laboratory applications
with no contamination control requirements

- Made of transparent Polypropylene (PP)
- 25,000 X g
- Autoclavable
- 80 °C



When to recommend

- Sample preparation and storage for general laboratory use
- Buffer preparation and reagent handling
- Non-sensitive assays and workflows
- Educational and training laboratories
- Cost-driven, high-volume applications

2. CLEARLine® Microtube

Enhanced purity with declared contamination
Control for sensitive laboratory applications



When to recommend

- PCR and molecular biology workflows
- DNA/RNA handling and amplification
- Cell culture and cell-based assays
- Diagnostic, research and regulated environments
- Applications where false positives, inhibition or sample degradation must be avoided

3 CLEARLock® MC Tube



- DNA Low Binding Available
- Protein Low Binding Available
- Sterile Tube Available
- 30,000g (5ml tube 21,000g)



STERILE



Biosigma Microtube 제품 선택 가이드

튜브 용량	구분1	구분2	Natural	Amber	Color
0.5ml	Standard	Standard	BSA026	BSA026/AM	
	ClearLine	ClearLine	CL026	CL026/AM	
	ClearLock	ClearLock	CL05.010.1000B		
		멸균(Single tube)	CL05.050.0001S		
		멸균(Bag)	CL05.005.0100S		
		Protein Low Binding	CL05.0100PLB		
		DNA Low Binding	CL05.0100DLB		
1.5ml	Standard	Standard	BSA022	BSA022/AM	Blue, Yellow, Pink, Green
	Standard	No Cap	BSA021		
	ClearLine	ClearLock	CL022BB	CL022/AM	
	ClearLock	ClearLock	CL15.020.0500B		
		멸균(Single tube)	CL15.100.0001S		
		멸균(Bag)	CL15.004.0050S		
		Protein Low Binding	CL15.0050PLB		
		DNA Low Binding	CL15.0050DLB		
2.0ml	Standard	Standard	BSA0269	BSA0269/AM	
	ClearLine	ClearLine	CL0269BB	CL0269/AM	
	ClearLock	ClearLock	CL20.016.0500B		
		멸균(Single tube)	CL20.100.0001S		
		멸균(Bag)	CL20.004.0050S		
		Protein Low Binding	CL20.0050PLB		
		DNA Low Binding	CL20.0050DLB		
5.0ml	ClearLock	ClearLock	CL50.022.0100		
		멸균(Single tube)	CL50.050.0020S		
		멸균(Bag)	CL50.010.0020S		



Micro Centrifuge Tube

Standard microtubes

- Flat cap for easy writing
- Clear graduation
- Excellent cap sealing
- Can be centrifuged up to 25,000 x g
- Autoclavable open at 121°C (for 20 minutes)
- Transparent polypropylene
- Non-sterile



Code	Colour	Vol. (ml)		Tubes/Bags	Bags/Box
BSA026	Neutral	0.5		1,000	10bags
BSA026/AM	Amber	0.5		1,000	10000
BSA021 (No Cap)	Neutral	1.5		1,000	10000
BSA0269	Neutral	2.0		1,000	8000
BSA0269/AM	Amber	2.0		1,000	8000

Code	Colour	Vol. (ml)	Dim. (cm)	Units/Bags	Sales units
BSA022	Neutral	1.5	H 4.10 Ø 1.08	500	8000
BSA022/AM	Amber	1.5	H 4.10 Ø 1.08	1000	10000
BSA022/BLU	Blue	1.5	H 4.10 Ø 1.08	1000	10000
BSA022/G	Yellow	1.5	H 4.10 Ø 1.08	1000	10000
BSA022/RA	Pink	1.5	H 4.10 Ø 1.08	1000	10000
BSA022/V	Green	1.5	H 4.10 Ø 1.08	1000	10000

CLEARLine® micotubes

- Flat cap for easy writing
- Clear graduation
- Excellent cap sealing
- Can be centrifuged up to 25,000 x g
- Autoclavable open at 121°C (for 20 minutes)
- Transparent polypropylene
- Non-sterile
- Free from DNases, RNases, Endotoxins, human DNA, PCR inhibitors and ATP*



* Certificate of Analysis downloadable from our website www.biosigma.com

Code	Colour	Vol. (ml)	Units/Bags	Sales units
CL026	Neutral	0.5	500	2000
CL026/AM	Amber	0.5	500	2000
CL022BB	Neutral	1.5	500	20bags
CL022/AM	Amber	1.5	500	1000
CL0269BB	Neutral	2.0	500	16bags
CL0269/AM	Amber	2.0	500	1000



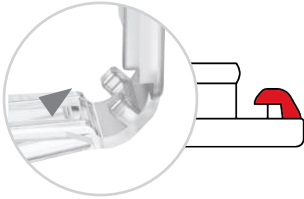
CLEARLock® Microtubes

- 안전성: 예기치 않은 열림 방지
- 편의성: 빠르고 간편한 개폐
- 무결성: 샘플 손실 및 증발 차단

CLEARLine®



Safety closure



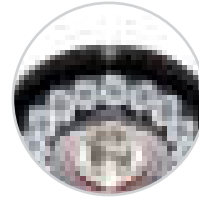
CLEARLine® box



Resealable zip bags



High Speed Centrifugation



Writable cap



- Made of medical-grade polypropylene
- Optimal transparency
- Suitable for centrifugation
- Operating temperature range: -80°C to +100°C
- Autoclavable when open at +121°C for 20 minutes
- Packaged in resealable zip bags
- Graduated with a writing area
- Cap with writing area; pierceable
- Single-use
- Sterile (SAL 10⁻⁶)**
- No detectable traces of metals within detection limits
- Certified free from human DNA, DNases, RNases, endotoxins, ATP, and PCR inhibitors*

* Certificate of Analysis downloadable from our website
www.biosigma.com

** Beta-ray sterilization validated; certificate available for
download at www.biosigma.com



0.5 ml



1.5 ml



2.0 ml



5.0 ml

CLEARLock® Microtubes in PP with safety closure

Code	Colour	Volume (ml)	Units/Bags	Sales units
CL05.010.1000B	Neutral	0.5	Bag of 500	500
CL15.020.0500B	Neutral	1.5	Bag of 500	20bags
CL20.016.0500B	Neutral	2.0	Bag of 500	16bags
CL50.002.0100	neutral	5.0	Bag of 100	200

CLEARLock® Microtubes in PP with safety closure, STERILE

Code	Colour	V (ml)	Units/Bags	Sales units
CL05.050.0001S	Neutral	0.5	Single	50
CL15.100.0001S	Neutral	1.5	Single	100
CL20.100.0001S	Neutral	2.0	Single	100
CL05.005.0100S	Neutral	0.5	Bag of 100	500
CL15.004.0050S	Neutral	1.5	Bag of 50	200
CL20.004.0050S	Neutral	2.0	Bag of 50	200
CL50.050.0001S	neutral	5.0	Single	50
CL50.010.0020S	neutral	5.0	Bag of 20	200

Micro Centrifuge Tube

Low binding CLEARLock®

CLEARLine® Low Binding CLEARLock® Microtubes

- 소량 샘플이나 복잡한 실험 단계에서 샘플 손실을 방지하는 것은 매우 중요합니다
- 최소화된 상호작용: 코팅제나 첨가제 없이 단백질 및 핵산과의 결합을 최소화
- 높은 회수율: 여러 단계의 조작 후에도 샘플을 거의 완벽하게 회수 가능
- 안정적 보관: 단백질 및 DNA 시료의 조제와 장기 보존에 이상적
- 신뢰성: 재현성 높고 정밀한 실험 결과에 도움

Minimise sample loss!

Low Binding CLEARLock® microtubes for centrifuge

0.5 • 1.5 • 2.0 ml Low Binding CLEARLock® Microtubes with safety closure

- Main Features:**
- High recovery of Proteins and Nucleic Acids
 - The cap prevents any involuntary opening during use
 - The safety closure prevents evaporation during long-term storage and heating of samples
 - Writable and pierceable cap
 - Graduated, with writing area
 - Excellent transparency
 - Temperature range from -80°C to +100°C
 - Autoclavable at +121°C for 20 minutes
 - Bags with opening and closing system
 - Particularly suitable for molecular biology and biochemistry
 - In medical polypropylene, Non-Cytotoxic – Non-Haemolytic
 - Suitable for the storage of chemical and biological samples
 - Certified batches* free from human DNA, DNases, RNases, Endotoxins, ATP, and PCR inhibitors
 - No traces of metals found within the detection limits
- Centrifuged at: 3,000Xg (5ml 21,000Xg)



Protein Low Binding CLEARLock® Microtubes

Code	Feature	Volume (ml)	Units/Bags	Sales units
CL05.0100PLB	Protein Low Binding	0.5	100	500
CL15.0050PLB	Protein Low Binding	1.5	50	200
CL20.0050PLB	Protein Low Binding	2.0	50	200

DNA Low Binding CLEARLock® Microtubes

Code	Feature	Volume (ml)	Units/Bags	Sales units
CL05.0100DLB	DNA Low Binding	0.5	100	500
CL15.0050DLB	DNA Low Binding	1.5	50	200
CL20.0050DLB	DNA Low Binding	2.0	50	200



* Certificate of Analysis downloadable from our website www.biosigma.com

Screw Cap Tube



Screw Cap Tube

Biosigma Screw Cap Tube 제품 선택 가이드

멸균(tube+cap)		Tube						
		conical			Self standing			
		0.5ml	1.5ml	2ml	0.5ml	1.5ml	2ml	
Cap without o-ring	non o-ring	CL601/S	CL721/S	CL741/S	CL611/S	CL731/S	CL751/S	
	capdisk	CL602/S	CL722/S	CL742/S	CL612/S	CL732/S	CL752/S	
	capdisk, collar	CL603/S	CL723/S	CL743/S	CL613/S	CL733/S	CL753/S	
Cap with o-ring	o-ring	CL604/S	CL724/S	CL744/S	CL614/S	CL734/S	CL754/S	
	o-ring (amber)						CL754/SAM	
	o-ring, Lowbinding DNA		CL724SDLB	CL744SDLB		CL734SDLB	CL754SDLB	
	o-ring, Lowbinding Protein		CL724SPLB	CL744SPLB		CL734SPLB	CL754SPLB	
	o-ring, capdisk	CL605/S	CL725/S	CL745/S	CL615/S	CL735/S	CL755/S	
	o-ring, capdisk, collar	CL606/S	CL726/S	CL746/S	CL616/S	CL736/S	CL756/S	

비멸균(tube+cap)		Tube						
		conical			Self standing			
		0.5ml	1.5ml	2ml	0.5ml	1.5ml	2ml	
Cap without o-ring	non o-ring	CL601	CL721	CL741	CL611	CL731	CL751	
	capdisk	CL602	CL722	CL742	CL612	CL732	CL752	
	capdisk, collar	CL603	CL723	CL743	CL613	CL733	CL753	
Cap with o-ring	o-ring	CL604	CL724	CL744	CL614	CL734	CL754	
	o-ring (amber)						CL754/AM	
	o-ringh, capdisk	CL605	CL725	CL745	CL615	CL735	CL755	
	o-ring, capdisk, collar	CL606	CL726	CL746	CL616	CL736	CL756	

비멸균(cap only)		Color						
		natural	yellow	green	light blue	pink	red	white
Cap without o-ring	non o-ring	CL800	CL800/G	CL800/V	CL800/AZ	CL800/RA	CL800/RO	CL800/BI
	capdisk	CL801	CL801/G	CL801/V	CL801/AZ	CL801/RA	CL801/RO	CL801/BI
	capdisk, collar	CL802	CL802/G	CL802/V	CL802/AZ	CL802/RA	CL802/RO	CL802/BI
Cap with o-ring	o-ring	CL810	CL810/G	CL810/V	CL810/AZ	CL810/RA	CL810/RO	CL810/BI
	o-ring, capdisk	CL811	CL811/G	CL811/V	CL811/AZ	CL811/RA	CL811/RO	CL811/BI
	o-ring, capdisk, collar	CL812	CL812/G	CL812/V	CL812/AZ	CL812/RA	CL812/RO	CL812/BI

비멸균(tube only)		Tube		
		conical	Self standing	
	0.5ml	CL600	CL610	
	1.5ml	CL720	CL730	
	2ml	CL740	CL750	

<----- 노란색으로 표시한 제품은 본 카탈로그에 명기(뒷페이지), 그외는 문의 바랍니다.



CLEARLine® microtubes with screw cap

- 샘플의 조제 와 장기 보존에 최적
- 차별화된 재질 : 동일 재질 사용시 발생하는 흡착현상을 방지 .
- 최고의 신뢰성: 밀폐력이 뛰어나 방사성 물질 , 감염원, 고가시약 보관에 특히 적합
- 0.5ml, 1.5ml, 2.0ml Tube
- 코니칼(Conical) 또는 셀프 스탠딩(Self-standing)
- 맞춤형 Cap: 3가지 타입의 Cap : 다양한 색상 가능



CLEARLine®



CLEARLine® screw cap centrifuge microtubes are certified free from DNases, RNases and Endotoxins by our internal laboratory.

You can download the specific certificate for the batch from the certificates section on our website.

- They resist high centrifugation speeds up to 25,000 x g and temperatures ranging from -85°C to +121°C
- Autoclavable open at 121°C for 20 minutes
- ext. Ø 10.2 mm ± 0.23; int. Ø 8.5 mm ± 0.21
- Test tube in medical grade polypropylene, cap in medical grade polyethylene, O-ring in medical grade thermoplastic rubber; materials tested in accordance with European Pharmacopoeia, ISO 10993, U.S. Pharmacopeia (USP) Class VI and with Drug Master File (DMF) filed with the FDA
- Beta-ray sterilised with validated method that guarantees a Sterility Assurance Level (SAL) of 10⁻⁶
- No traces of metals found within the detection limits

STERILE

0.5ml Tubes

CLEARLine® 0.5 ml screw cap microtubes, sterile capped with o-ring

DNase

RNase

Endotoxin

METALS

CL604/S

CL606/S

CL614/S

CL616/S

Code	Base	With hinged cap	O-Ring	Units/Bags	Sales units
CL604/S			X	500	1000
CL606/S		X	X	500	1000
CL614/S	X		X	500	1000
CL616/S	X	X	X	500	1000

1.5ml Tubes

CLEARLine® 1.5 ml screw cap microtubes, sterile capped with o-ring

DNase

RNase

Endotoxin

METALS

CL724/S

CL726/S

CL734/S

CL736/S

Code	Base	With hinged cap	O-Ring	Writing area	Units/Bags	Sales units
CL724/S			X	X	500	1000
CL726/S		X	X	X	500	1000
CL734/S	X		X	X	500	1000
CL736/S	X	X	X	X	500	1000

Screw Cap Tube

2.0ml Tubes

CLEARLine® 2.0 ml screw cap microtubes, sterile capped with o-ring



Code	Colour	Base	With hinged cap	O-Ring	Writing area	Units/Bags	Sales units
CL744/S	Neutral			X	X	500	1000
CL746/S	Neutral		X	X	X	500	1000
CL754/S	Neutral	X		X	X	500	1000
CL754/AM*	Amber	X		X	X	1000	3000
CL754/SAM	Amber	X		X	X	500	1000
CL756/S	Neutral	X	X	X	X	500	1000

* non-sterile

Cap Disk

- Allows you to diversify and organise your microtubes according to your needs
- They can be inserted into screw caps with a compartment for a coloured disk



Code	Colour	Units/Bags	Sales units
BSM910/AZ	Light Blue	500	1000
BSM910/BI	White	500	1000
BSM910/G	Yellow	500	1000
BSM910/RA	Pink	1000	3000
BSM910/RO	Red	500	1000
BSM910/V	Green	500	1000

CLEARLine®
Accessories

CLEARLine® DNA Low Binding microtubes with screw cap

- High nucleic acid recovery
- Sterile
- Temperature range from -85°C to +121°C
- Autoclavable at +121°C for 20 minutes
- Suitable for all Molecular Biology applications
- Free from human and bacterial DNA, DNases, RNases, Endotoxins and PCR inhibitors
- No traces of metals found within the detection limits



Low Binding
DNA

Code	Description	Bottom	Unit/Bag	Sales units
CL724SDLB	1.5 ml DNA Low Binding Microtube	Conical	500	1000
CL734SDLB	1.5 ml DNA Low Binding Microtube	With base	500	1000
CL744SDLB	2 ml DNA Low Binding Microtube	Conical	500	1000
CL754SDLB	2 ml DNA Low Binding Microtube	With base	500	1000

CLEARLine® Protein Low Binding microtubes with screw cap

- High protein recovery
- Sterile
- Temperature range from -85°C to +121°C
- Autoclavable at +121°C for 20 minutes
- Suitable for all Biochemistry applications
- Free from human and bacterial DNA, DNases, RNases, Endotoxins and PCR inhibitors
- No traces of metals found within the detection limits



Low Binding
PROTEIN

Code	Description	Bottom	Units/Bags	Sales units
CL724SPLB	1.5 ml Protein Low Binding Microtube	Conical	500	1000
CL734SPLB	1.5 ml Protein Low Binding Microtube	With base	500	1000
CL744SPLB	2 ml Protein Low Binding Microtube	Conical	500	1000
CL754SPLB	2 ml Protein Low Binding Microtube	With base	500	1000

CLEARLine® microtubes without cap



Code	Heights	Volume (ml)	Base	Writing area	Unit/Bag	Sales units
CL600	4.54	0.5			1000	3000
CL610	4.62	0.5	X		1000	3000
CL720	4.54	1.5		X	1000	3000
CL730	4.62	1.5	X	X	1000	3000
CL740	4.56	2.0		X	1000	3000
CL750	4.70	2.0	X	X	1000	3000

CLEARLine® screw caps for microtubes

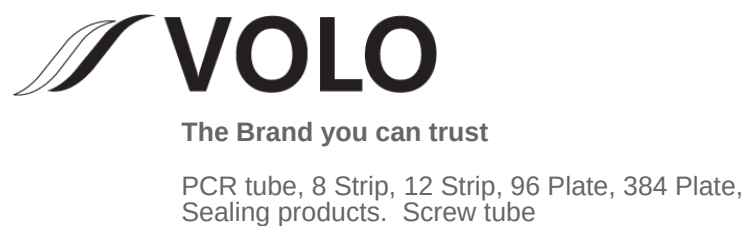
- Made of medical grade virgin polyethylene

Colour	Screw cap with o-Ring	Screw cap with insert for coloured disc and o-Ring	Screw cap with insert for coloured disc, tie and o-Ring
H-mm ± 0.21	6.8	8.2	8.2
Diam.-mm ± 0.23	13.2	13.2	13.2
Neutral	CL810	CL811	CL812
Light Blue	CL810/AZ	CL811/AZ	CL812/AZ
White	CL810/BI	CL811/BI	CL812/BI
Yellow	CL810/G	CL811/G	CL812/G
Pink	CL810/RA	CL811/RA	CL812/RA
Red	CL810/RO	CL811/RO	CL812/RO
Green	CL810/V	CL811/V	CL812/V
Units/Bags	Bag / 1000	Bag / 1000	Bag / 1000
Sales units	3000	3000	3000



From Biotechnology to What?

생명과학기술은 계속해서 발전해 나가면서 인류의 삶을 더욱 향상시킬 것입니다.
비투바이오의 로고는 이러한 미래에 대한 기대와 확신을 상징하며
'From Biotechnology to What?'을 의미하고 있습니다.
비투바이오는 좋은 제품과 서비스로 바이오 연구자님들을 지원하겠습니다.



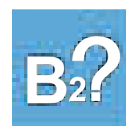


CLEAR
CLEAR

Be cool, be safe, be

MADEinITALY

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