



SAFE ❄️
Store Aliquots For Ever

Samplosophy®

**2D Sample Storage and Biobanking
Solutions for Demanding Long-term
Sample Archiving Requirements**



For over 10 years, customers from the fields of human diagnostics, veterinary diagnostics and biopharmaceutics, have been confident in using uncoded and alphanumeric tubes, as well as tube rack systems from LVL technologies, during their work. Approximately 100 million tubes have been used throughout this period.

In response to new demands in Sample Management, in particular the demand for high sample throughput (e.g. bio bank sector), LVL technologies has made use of the latest technologies to develop a data tube rack system, which combines excellent quality with an almost unbeatable price-performance ratio. In short, a new philosophy in modern Sample Management has developed. Produced in the EU using modern injection moulding machines, tools and lasers.

Tubes

- Material: low-binding virgin Polypropylene for reaction-free sample storage
- Polished tubes for excellent transparency and visual control
- Extra thick walls for long-term storage at temperatures down to -196°C
- external and internal thread for screw caps
- Tubes laser-labelled with data matrix code (2D), easily legible thanks to excellent contrast and matte background (white on black)
- Data matrix code legible with all standard scanners
- On request, with codes visible to the human eye in addition to 2D codes
- Tubes and bottoms produced with patented wet-on-wet patenting process, so that mechanical or thermal influences cannot result in separation of the two components
- Optional side code labelling
- Outer F-bottom for good legibility, internal U-bottom for low dead volume
- Closable with screw caps (external and internal thread), push caps or heat sealing foil
- Compatible with most automated storage systems



2D code can be complemented with codes visible to the human eye on request.



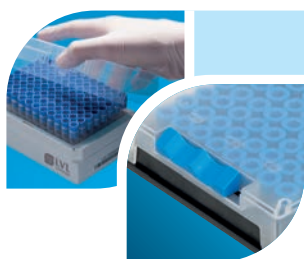
One instead of two components – no separation of tubes and barcode possible as a result of wet-on-wet patenting process.



Optional side code labelling: 1D, 2D or visible to the human eye.

Rack

- SBS standard and stackable
- Linear barcode labelling on long and narrow side
- Lid fitted with a secure locking system
- Available in two different versions: side locking and push locking



Simple and robust locking mechanism – gently pressing or sliding.

System

- Tubes have a stable position in rack but can be easily removed
- Storage of rack and tubes over liquid nitrogen at temperatures down to -196°C
- Manufactured under ISO 8 clean room conditions (certified as free of DNA, RNA, DNase, RNase, endotoxins/pyrogenic, ATP)
- Further optimisation with clean room class ISO 7 and sterilization with beta radiation or ETO gassing possible
- Also available as OEM product for orders of higher quantities, with logo and individual numbering (data matrix code and linear barcode)



Our promise – your product: we individualise your rack from 1D/2D-number range with your own logo.

Push Cap Mat

- Material: Thermoplastic Elastomer (TPE)
- With internal thread to ensure tight sealing of tubes
- A single push of the mat simultaneously closes 96 individual tubes
- Also available as strip of 8 or 12
- Storage temperatures down to -80°C
- Manufactured under ISO 8 clean room conditions (certified free of DNA, RNA, DNase, RNase, endotoxins/pyrogenics, ATP); further optimisation with clean room class ISO 7 and sterilisation with beta radiation or ETO gassing possible
- Available in colours: blue, red, yellow, orange green, white and black



One mat – 96 caps: the easiest way to close 96 single tubes immediately.

Heat Sealing Foil

- Material: aluminium
- For tight and individual tube sealing
- Pierceable
- Storage temperatures down to -80°C
- Heat Sealer required (see page 13)



Cost-efficient sealing option for single use samples.

Store Aliquots For Ever – being safe is largely a matter of capping. LVL has therefore developed a broad range of capping mechanisms. Alongside our Push Caps and Heat Seal Caps, we also highly recommend our two different types of Screw Cap. LVL is the only supplier able to offer the injected TPE compression sealing in both cap; for the internal and external thread. We thereby guarantee the best possible sealing and closing capabilities without risking over-tightening.

Additionally, our new TPE will be as flexible as TPE but twenty times more impermeable – almost like PP itself. That means increased tightness and a better mechanical performance in case of thermal and chemical influences. The double soul of the macromolecular chain of the new TPE, allows the polymer to match the qualities of flexible plastics with the performance of thermoset elastomers. The caps for our tubes, with external thread, have an additional sealing mechanism. In addition to the TPE sealing, a double ring narrowing prevents liquids getting into the thread of the cap.

... and Space Saving

Particularly for sample storage in automated storage systems, where space really does become a matter of money, our tubes with external thread can help you save costs. For example, our smallest tube, the SX 300, has an effective working volume of 300 µl at a height of only 19.1 mm – a real space-saving miracle!

Screw Caps

- Material: low Binding Virgin Polypropylene for reaction-free sample storage
- With external and internal thread for tight sealing of tubes
- Produced using 2 component process: the seal (compression ring) is injection moulded onto the cap, and is therefore securely positioned and impossible to twist
- Cap head with internal 8-face torx socket for positive contact with appropriate tool, or cappers/decappers
- Storage over liquid nitrogen at temperatures down to -196° C
- Manufactured under ISO 8 clean room conditions (certified free of DNA, RNA, DNase, RNase, endotoxins/pyrogens, ATP); further optimisation with clean room class ISO 7 and sterilisation with beta radiation or ETO gassing possible
- Available in colours: blue, red, yellow, orange, green, white and black
- Available as pre-capped, pre-stacked, in a cap rack or as bulk ware



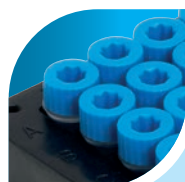
Internal thread: best sealing- and closing capability through injected TPE compression ring and enlarged contact surface by ring of tube.



External thread: best sealing- and closing capability through injected TPE compression ring and double ring narrowing.



Compatible with many cappers/decappers.



Caps also available in cap rack.



	MI 500	LI 1000	SX 300	MX 500	LX 1000
Working Volume with Screw Cap	450 µl	980 µl	300 µl	500 µl	1,000 µl
Working Volume with Push Cap	540 µl	1,070 µl	250 µl	400 µl	900 µl
Working Volume with Heat Seal Cap	660 µl	1,230 µl	300 µl	500 µl	1,000 µl
Thread Type	Internal	Internal	External	External	External
Storage Temperature with Screw Cap	-196°C / VPLN2	-196°C / VPLN2	-196°C / VPLN2	-196°C / VPLN2	-196°C / VPLN2
Storage Temperature with Push Cap	-80°C	-80°C	-80°C	-80°C	-80°C
Storage Temperature with Heat Seal Cap	-80°C	-80°C	-80°C	-80°C	-80°C
Outer Diameter	8.4 mm	8.4 mm	8.8 mm	8.8 mm	8.8 mm
Tube Height	27.0 mm	45.0 mm	18.0 mm	25.0 mm	44.0 mm
Tube Height with Screw Cap	33.4 mm	51.4 mm	19.1 mm	26.1 mm	45.1 mm
Tube Height with Push Cap	28.0 mm	46.0 mm	18.5 mm	25.5 mm	44.5 mm
Option Side code labelling visible to the human eye	Yes	Yes	No	Yes	Yes
Option Side code labelling Barcode / 1D	Yes	Yes	No	No	Yes
Option Side code labelling Data Matrix Code / 2D	No	No	Yes	No	No
Rack	SBS 96	SBS 96	SBS 96	SBS 96	SBS 96
Rack Height without Lid	33.5 mm	51.5 mm	19.6 mm	26.6 mm	45.6 mm
Rack Lid / Rack Type	Push Lock: MI96P Slide Lock: MI96S	Push Lock: LI96P Slide Lock: LI96S	Slide Lock: SX96S	Slide Lock: MX96S	Slide Lock: LX96S
Rack Height incl. Lid	MI96P: 36.2 mm MI96S: 36.2 mm	LI96P: 54.2 mm LI96S: 54.2 mm	SX96S: 22.3 mm	MX96S: 29.3 mm	LX96S: 48.3 mm

Samplosophy® – Product Order Information

LX 1000 – Data Matrix Tube Large with External Thread

Article No.	Screw Cap (Blue)	Side Code Labelling	Container	Lid	sterilized	Quantity
2DNC-X10-NC-NS-PL-L	No	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X10-BL-NS-PL-L	Yes	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X10-NC-PS-PL-L	No	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X10-BL-PS-PL-L	Yes	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X10-NC-NS-SL-L	No	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X10-BL-NS-SL-L	Yes	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X10-NC-PS-SL-L	No	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X10-BL-PS-SL-L	Yes	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X10-NC-NS-BU-L	No	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-X10-BL-NS-BU-L	Yes	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-X10-NC-PS-BU-L	No	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DNC-X10-BL-PS-BU-L	Yes	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-X10NC-NS-PL-L	No	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X10-BL-NS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X10-NC-PS-PL-L	No	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X10-BL-PS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X10-NC-NS-SL-L	No	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X10-BL-NS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X10-NC-PS-SL-L	No	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X10-BL-PS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X10-NC-NS-BU-L	No	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-X10-BL-NS-BU-L	Yes	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-X10-NC-PS-BU-L	No	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-X10-BL-PS-BU-L	Yes	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)

MX 500 – Data Matrix Tube Medium with External Thread

Article No.	Screw Cap (Blue)	Side Code Labelling	Container	Lid	sterilized	Quantity
2DNC-X05-NC-NS-PL-L	No	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X05-BL-NS-PL-L	Yes	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X05-NC-PS-PL-L	No	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X05-BL-PS-PL-L	Yes	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X05-NC-NS-SL-L	No	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X05-BL-NS-SL-L	Yes	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X05-NC-PS-SL-L	No	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X05-BL-PS-SL-L	Yes	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X05-NC-NS-BU-L	No	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-X05-BL-NS-BU-L	Yes	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-X05-NC-PS-BU-L	No	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DNC-X05-BL-PS-BU-L	Yes	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-X05-NC-NS-PL-L	No	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X05-BL-NS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X05-NC-PS-PL-L	No	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X05-BL-PS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X05-NC-NS-SL-L	No	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X05-BL-NS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X05-NC-PS-SL-L	No	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X05-BL-PS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X05-NC-NS-BU-L	No	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-X05-BL-NS-BU-L	Yes	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-X05-NC-PS-BU-L	No	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-X05-BL-PS-BU-L	Yes	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)

SX 300 – Data Matrix Tube Small with External Thread

Article No.	Screw Cap (Blue)	Side Code Labelling	Container	Lid	sterilized	Quantity
2DNC-X03-NC-NS-SL-L	No	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X03-BL-NS-SL-L	Yes	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-X03-NC-PS-SL-L	No	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X03-BL-PS-SL-L	Yes	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-X03-NC-NS-BU-L	No	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-X03-BL-NS-BU-L	Yes	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-X03-NC-PS-BU-L	No	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DNC-X03-BL-PS-BU-L	Yes	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-X03-NC-NS-SL-L	No	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X03-BL-NS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-X03-NC-PS-SL-L	No	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X03-BL-PS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-X03-NC-NS-BU-L	No	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-X03-BL-NS-BU-L	Yes	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-X03-NC-PS-BU-L	No	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-X03-BL-PS-BU-L	Yes	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)

Screw Caps for LX 1000, MX 500 and SX 300 (External Thread)

Article No.	Container	Color	sterilized	Quantity
SC96-XT-WHI-NS-BU-L	Bulk Ware	White	No	4,800 (50 Bags à 96 Caps)
SC96-XT-WHI-PS-BU-L	Bulk Ware	White	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-BLA-NS-BU-L	Bulk Ware	Black	No	4,800 (50 Bags à 96 Caps)
SC96-XT-BLA-PS-BU-L	Bulk Ware	Black	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-BLU-NS-BU-L	Bulk Ware	Blue	No	4,800 (50 Bags à 96 Caps)
SC96-XT-BLU-PS-BU-L	Bulk Ware	Blue	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-RED-NS-BU-L	Bulk Ware	Red	No	4,800 (50 Bags à 96 Caps)
SC96-XT-RED-PS-BU-L	Bulk Ware	Red	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-GRE-NS-BU-L	Bulk Ware	Green	No	4,800 (50 Bags à 96 Caps)
SC96-XT-GRE-PS-BU-L	Bulk Ware	Green	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-YEL-NS-BU-L	Bulk Ware	Yellow	No	4,800 (50 Bags à 96 Caps)
SC96-XT-YEL-PS-BU-L	Bulk Ware	Yellow	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-COL-NS-BU-L	Bulk Ware	Coloured	No	4,800 (50 Bags à 96 Caps)
SC96-XT-COL-PS-BU-L	Bulk Ware	Coloured	Yes	4,800 (50 Bags à 96 Caps)
SC96-XT-WHI-NS-CR-L	Cap Rack	White	No	4,800 (50 Racks à 96 Caps)
SC96-XT-WHI-PS-CR-L	Cap Rack	White	Yes	4,800 (50 Racks à 96 Caps)
SC96-XT-BLA-NS-CR-L	Cap Rack	Black	No	4,800 (50 Racks à 96 Caps)
SC96-XT-BLA-PS-CR-L	Cap Rack	Black	Yes	4,800 (50 Racks à 96 Caps)
SC96-XT-BLU-NS-CR-L	Cap Rack	Blue	No	4,800 (50 Racks à 96 Caps)
SC96-XT-BLU-PS-CR-L	Cap Rack	Blue	Yes	4,800 (50 Racks à 96 Caps)
SC96-XT-RED-NS-CR-L	Cap Rack	Red	No	4,800 (50 Racks à 96 Caps)
SC96-XT-RED-PS-CR-L	Cap Rack	Red	Yes	4,800 (50 Racks à 96 Caps)
SC96-XT-GRE-NS-CR-L	Cap Rack	Green	No	4,800 (50 Racks à 96 Caps)
SC96-XT-GRE-PS-CR-L	Cap Rack	Green	Yes	4,800 (50 Racks à 96 Caps)
SC96-XT-YEL-NS-CR-L	Cap Rack	Yellow	No	4,800 (50 Racks à 96 Caps)
SC96-XT-YEL-PS-CR-L	Cap Rack	Yellow	Yes	4,800 (50 Racks à 96 Caps)
SC96-XT-COL-NS-CR-L	Cap Rack	Coloured	No	4,800 (50 Racks à 96 Caps)
SC96-XT-COL-PS-CR-L	Cap Rack	Coloured	Yes	4,800 (50 Racks à 96 Caps)

LI 1000 – Data Matrix Tube Large with Internal Thread

Article No.	Screw Cap (Blue)	Side Code Labelling	Container	Lid	sterilized	Quantity
2DNC-I10-NC-NS-PL-L	No	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I10-BL-NS-PL-L	Yes	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I10-NC-PS-PL-L	No	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I10-BL-PS-PL-L	Yes	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I10-NC-NS-SL-L	No	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I10-BL-NS-SL-L	Yes	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I10-NC-PS-SL-L	No	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I10-BL-PS-SL-L	Yes	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I10-NC-NS-BU-L	No	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-I10-BL-NS-BU-L	Yes	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-I10-NC-PS-BU-L	No	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DNC-I10-BL-PS-BU-L	Yes	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-I10-NC-NS-PL-L	No	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I10-BL-NS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I10-NC-PS-PL-L	No	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I10-BL-PS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I10-NC-NS-SL-L	No	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I10-BL-NS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I10-NC-PS-SL-L	No	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I10-BL-PS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I10-NC-NS-BU-L	No	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-I10-BL-NS-BU-L	Yes	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-I10-NC-PS-BU-L	No	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-I10-BL-PS-BU-L	Yes	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)

MI 500 – Data Matrix Tube Medium with Internal Thread

Article No.	Screw Cap (Blue)	Side Code Labelling	Container	Lid	sterilized	Quantity
2DNC-I05-NC-NS-PL-L	No	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I05-BL-NS-PL-L	Yes	No	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I05-NC-PS-PL-L	No	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I05-BL-PS-PL-L	Yes	No	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I05-NC-NS-SL-L	No	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I05-BL-NS-SL-L	Yes	No	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DNC-I05-NC-PS-SL-L	No	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I05-BL-PS-SL-L	Yes	No	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DNC-I05-NC-NS-BU-L	No	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-I05-BL-NS-BU-L	Yes	No	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DNC-I05-NC-PS-BU-L	No	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DNC-I05-BL-PS-BU-L	Yes	No	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-I05-NC-NS-PL-L	No	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I05-BL-NS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I05-NC-PS-PL-L	No	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I05-BL-PS-PL-L	Yes	Yes	SBS Rack 96	Push Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I05-NC-NS-SL-L	No	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I05-BL-NS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	No	4,800 (50 Racks à 96 Tubes)
2DSC-I05-NC-PS-SL-L	No	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I05-BL-PS-SL-L	Yes	Yes	SBS Rack 96	Slide Lock	Yes	4,800 (50 Racks à 96 Tubes)
2DSC-I05-NC-NS-BU-L	No	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-I05-BL-NS-BU-L	Yes	Yes	Bulk Ware		No	4,800 (50 Bags à 96 Tubes)
2DSC-I05-NC-PS-BU-L	No	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)
2DSC-I05-BL-PS-BU-L	Yes	Yes	Bulk Ware		Yes	4,800 (50 Bags à 96 Tubes)

Screw Caps for LI 1000 and MI 500 (Internal Thread)

Article No.	Container	Color	sterilized	Quantity
SC96-IT-WHI-NS-BU-L	Bulk Ware	White	No	4,800 (50 Bags à 96 Caps)
SC96-IT-WHI-PS-BU-L	Bulk Ware	White	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-BLA-NS-BU-L	Bulk Ware	Black	No	4,800 (50 Bags à 96 Caps)
SC96-IT-BLA-PS-BU-L	Bulk Ware	Black	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-BLU-NS-BU-L	Bulk Ware	Blue	No	4,800 (50 Bags à 96 Caps)
SC96-IT-BLU-PS-BU-L	Bulk Ware	Blue	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-RED-NS-BU-L	Bulk Ware	Red	No	4,800 (50 Bags à 96 Caps)
SC96-IT-RED-PS-BU-L	Bulk Ware	Red	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-GRE-NS-BU-L	Bulk Ware	Green	No	4,800 (50 Bags à 96 Caps)
SC96-IT-GRE-PS-BU-L	Bulk Ware	Green	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-YEL-NS-BU-L	Bulk Ware	Yellow	No	4,800 (50 Bags à 96 Caps)
SC96-IT-YEL-PS-BU-L	Bulk Ware	Yellow	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-COL-NS-BU-L	Bulk Ware	Coloured	No	4,800 (50 Bags à 96 Caps)
SC96-IT-COL-PS-BU-L	Bulk Ware	Coloured	Yes	4,800 (50 Bags à 96 Caps)
SC96-IT-WHI-NS-CR-L	Cap Rack	White	No	4,800 (50 Racks à 96 Caps)
SC96-IT-WHI-PS-CR-L	Cap Rack	White	Yes	4,800 (50 Racks à 96 Caps)
SC96-IT-BLA-NS-CR-L	Cap Rack	Black	No	4,800 (50 Racks à 96 Caps)
SC96-IT-BLA-PS-CR-L	Cap Rack	Black	Yes	4,800 (50 Racks à 96 Caps)
SC96-IT-BLU-NS-CR-L	Cap Rack	Blue	No	4,800 (50 Racks à 96 Caps)
SC96-IT-BLU-PS-CR-L	Cap Rack	Blue	Yes	4,800 (50 Racks à 96 Caps)
SC96-IT-RED-NS-CR-L	Cap Rack	Red	No	4,800 (50 Racks à 96 Caps)
SC96-IT-RED-PS-CR-L	Cap Rack	Red	Yes	4,800 (50 Racks à 96 Caps)
SC96-IT-GRE-NS-CR-L	Cap Rack	Green	No	4,800 (50 Racks à 96 Caps)
SC96-IT-GRE-PS-CR-L	Cap Rack	Green	Yes	4,800 (50 Racks à 96 Caps)
SC96-IT-YEL-NS-CR-L	Cap Rack	Yellow	No	4,800 (50 Racks à 96 Caps)
SC96-IT-YEL-PS-CR-L	Cap Rack	Yellow	Yes	4,800 (50 Racks à 96 Caps)
SC96-IT-COL-NS-CR-L	Cap Rack	Colored	No	4,800 (50 Racks à 96 Caps)
SC96-IT-COL-PS-CR-L	Cap Rack	Colored	Yes	4,800 (50 Racks à 96 Caps)

Push Cap Mats

Article No.	Color	sterilized	Quantity
PC96-WHI-NS	White	No	4,800 (50 Mats à 96 Caps)
PC96-WHI-PS	White	Yes	4,800 (50 Mats à 96 Caps)
PC96-BLA-NS	Black	No	4,800 (50 Mats à 96 Caps)
PC96-BLA-PS	Black	Yes	4,800 (50 Mats à 96 Caps)
PC96-BLU-NS	Blue	No	4,800 (50 Mats à 96 Caps)
PC96-BLU-PS	Blue	Yes	4,800 (50 Mats à 96 Caps)
PC96-RED-NS	Red	No	4,800 (50 Mats à 96 Caps)
PC96-RED-PS	Red	Yes	4,800 (50 Mats à 96 Caps)
PC96-GRE-NS	Green	No	4,800 (50 Mats à 96 Caps)
PC96-GRE-PS	Green	Yes	4,800 (50 Mats à 96 Caps)
PC96-YEL-NS	Yellow	No	4,800 (50 Mats à 96 Caps)
PC96-YEL-PS	Yellow	Yes	4,800 (50 Mats à 96 Caps)
PC96-COL-NS	Coloured	No	4,800 (50 Mats à 96 Caps)
PC96-COL-PS	Coloured	Yes	4,800 (50 Mats à 96 Caps)

Empty Racks for Bulk Ware Orders

For information on how to order empty racks, see the product overview on page 5.

Article No.: RCK-Rack Type-L; e.g. RCK-SX96S-L

LVL CRYO

100/81 Data Matrix Cryo Tube Rack System for manual sample archiving



Tubes

- Material tubes: Polypropylene
- 2D barcode laser etched on the base of the tube
- Extra 1D barcode on side, as well as a white text description field for labelling
- Polished tubes for excellent transparency
- Outer F-bottom for good legibility, internal U-bottom for low dead volume
- Tubes stand alone or are screwed into a stable, fixed position in a rack
- Available with internal thread (100 tubes per rack), and external thread (81 tubes per rack)
- Graduation for an exact dosing
- Closable with screw caps (delivered capped)
- Caps are produced in 2K procedure
- Seal is injected into the screw cap
- Storage of tubes over liquid nitrogen at temperatures down to -196°C
- Autoclavable at 121°C for 20 minutes
- Beta sterilised (certified as free of DNA, PCR inhibitor, RNA, DNase, RNase, endotoxins/pyrogenes, ATP)

LVL CRYO – Product Overview Tubes

Article No.	Thread	Brutto Tube Vol.	Max Working Vol.	Height	Packaging Unit
2D500-200-ET	external	2.0 ml	1.8 ml	45.6 mm	500
2D500-200-IT	internal	2.0 ml	1.8 ml	48.2 mm	500
2D500-500-ET	external	5.0 ml	4.5 ml	87.6 mm	500
2D500-500-IT	internal	5.0 ml	4.5 ml	90.3 mm	500



Rack

- Material: Polycarbonate
- Rack is labelled with linear barcode (1D) on narrow side and with data matrix code on bottom
- Lid with raster insert for rapid identification of tubes
- Storage of rack and tubes over liquid nitrogen at temperature down to -196°C
- 81 racks available in 5 different colours

LVL CRYO – Product Overview Rack

Article No.	For Brutto Vol.	Grid Colour	Dimension	Quantity racks per unit
2D81-YEL-200	2.0 ml	Yellow	132x132x52 mm	40
2D81-RED-200	2.0 ml	Red	132x132x52 mm	40
2D81-GRE-200	2.0 ml	Green	132x132x52 mm	40
2D81-BLU-200	2.0 ml	Blue	132x132x52 mm	40
2D100-WHI-200	2.0 ml	White	132x132x52 mm	40
2D81-YEL-500	5.0 ml	Yellow	132x132x94 mm	32
2D81-RED-500	5.0 ml	Red	132x132x94 mm	32
2D81-GRE-500	5.0 ml	Green	132x132x94 mm	32
2D81-BLU-500	5.0 ml	Blue	132x132x94 mm	32
2D100-WHI-500	5.0 ml	White	132x132x94 mm	40

Samplosopher Cap

Cappers / Decappers

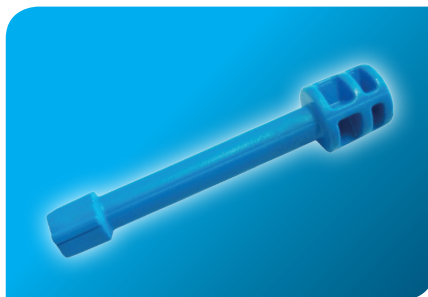
LVL offers diverse, manual, semi-automated and fully-automated push caps, screw caps and heat sealing caps.



Manual 1-channel capper/decapper/picker for screw caps (SBS)

Internal thread Article No.:
CDC-1CH-IT-SBS96

External thread Article No.:
CDC-1CH-XT-SBS96



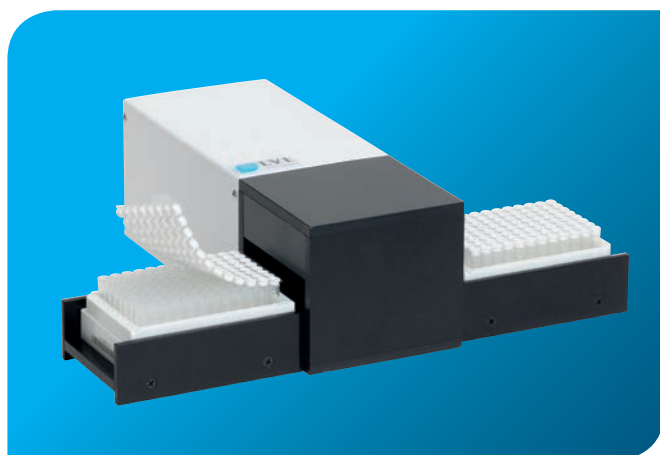
Manual 1-channel capper/decapper/picker for screw caps (CRYO)

Article No.: CDC-1CH-CRYO



Manual 8/1-channel decapper for push caps

Article No.: DC-8CH



Samplosopher Cap 96P

Semi-automated 96-channel capper for push caps
Article No.: C-96CH-DD

- One process seals a complete SBS rack with push caps
- Variable rack heights available



Samplosopher Cap 8S

Semi-automated 8-channel capper/decapper for screw caps

Internal thread Article No.: CDC-8CH-IT

External thread Article No.: CDC-8CH-XT

- Mobile, battery-operated 8-channel decapper
- Simultaneous capping/decapping of 8 tubes
- Integrated dropping mechanism



Samplosopher Cap 96S

Fully-automated 96-channel capper/decapper for screw caps

Internal thread Article No.: CDC-96CH-IT-DD

External thread Article No.: CDC-96CH-XT-DD

- Simultaneous capping and decapping of up to 96 tubes in SBS rack, within 28 seconds
- Reduced risk of cross-contamination
- Powered exclusively by electricity. No air required
- Rack heights may be adapted
- Equipment also deliverable as an integrated version for automated pipettors and storage systems



Samplosopher Cap Seal

Fully-automated Heat sealing and Laser Tube Cutting System

Article No.: CHS-96CH-DD

- Designed for Samplosophy® tube racks
- Aluminium foil allows storage at temperatures down to at least -80°C
- Laser cutting for 96 tubes, in single rows or columns only
- Customisation of applications and cut profiles upon request (circular or square)
- Tube racks can be pre-scored, leaving minimal seal thickness to reduce tip/probe piercing pressures
- Tubes can be individualised to allow random access in any format. This also allows seal or cut-only processing
- Non-adjustable tube rack heights ranging from 7 to 48 mm
- Inbuilt touch panel, PC-based, GUI-controlled
- Also available as integrated version
- Plates can be re-sealed and re-pierced multiple times
- Minimal heat transfer from laser
- Uses latest fibre laser technology for long process life
- Runs with compressed air control system (5.5 bar at 70 LPM)

Samplosopher Scan

Tube and Rack Scanners



Samplosopher Scan Mini

Stationary Single Tube Scanner for Single Tubes

Article No.: DMTR-DP-ST

- Scans barcodes of Samplosophy®, LVL CRYO and any additional standard 2D Tubes
- Easy export export as MS Excel, XML or text file. Scanned images can also be saved
- Available with cryoprotection to prevent clouding



Samplosopher Scan Standard Single

Tube rack scanner for SBS single rack

Article No.: DMTR-DF-SR

- Scans barcodes of Samplosophy® and any further common 2D Tubes in SBS rack



Samplosopher Scan Standard Multi

Tube Rack Scanner for SBS single rack and CRYO single rack

Article No.: DMTR-DF-MR

- Simultaneously scans barcodes of Samplosophy®, LVL CRYO and any additional standard 2D tubes in SBS rack and in CRYO rack

Samplosopher Scan Standard Express

Tube Rack Scanner for SBS single rack

Article No.: DMTR-EX-SR

- Scans barcodes of Samplosophy® and any additional standard 2D tubes in SBS rack within one second
- Small footprint (slightly wider than a SBS rack) makes it ideal for integration in automated pipetting systems

- Easily exported as MS Excel, XML or text file. Scanned images can also be saved
- The Samplosopher Standard can also be used with a linear Barcode Reader so that the barcode on the side of the rack can be scanned simultaneously

- The software displays the results of the scan and can identify the difference between a correctly scanned tube (green), a damaged tube (red) and a missing tube (grey)
- Available with cryoprotection to prevent clouding



Samplosopher Scan Mobile Premium

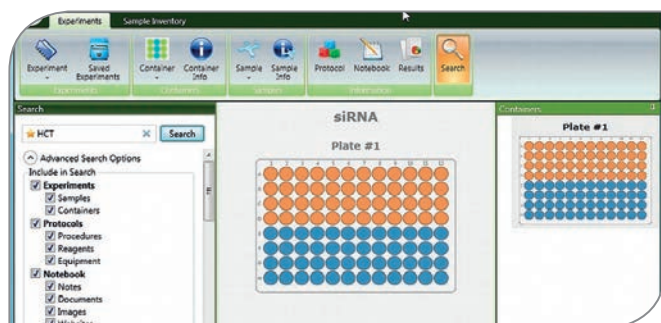
Mobile Data Matrix Single Tube Scanner incl. Software and Tablet with Docking Station

Article No.: DMTR-ST-TPC10DS

- High quality 10" screen
- This tablet allows you to carry your workspace with you
- Scans barcodes of Samplosophy®, LVL CRYO and any additional standard 2D tubes
- Tablet computer (HP Elitepad with Windows 8.1), and its specialised software allows data to be processed or exported.
- Synchronisation of data with MS Excel
- Docking station means that neither a USB connection, nor a recharge cable is required

Samplosopher Track

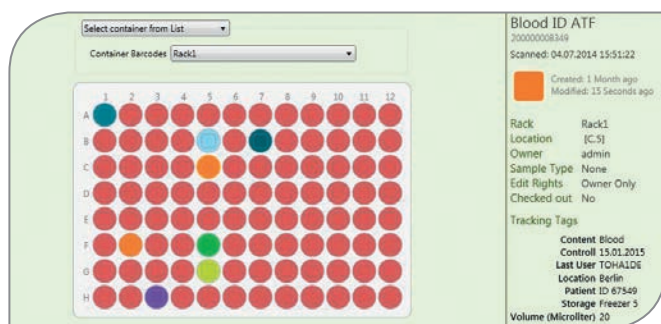
Sample Management Software for automated sample archiving



Samplosopher Samples

Article No.: SMS-1

- Samples integrate the Samplosopher Barcode Scanner
- Samples can be organised, categorised and archived individually as racks and tubes
- Fields and field categories can be freely defined (e.g. text, number, volume, date, multiple choice, file)
- All information entered into samples can be searched using the samples search panel. Sample information can be imported or exported and shared with colleagues



Additional solutions

We also offer individualised software solutions, incl. database connections, upon request.

Please feel free to contact us!



SAFE ❄️
Store Aliquots For Ever

Samplosophy®



LVL technologies GmbH & Co. KG

Theodor-Storm-Straße 17 • 74564 Crailsheim • Germany

Phone: +49 7951 95613 20 • Fax: +49 7951 95613 33

info@lvl-technologies.com • www.lvl-technologies.com



We care about your liquid samples

www.lvl-technologies.com