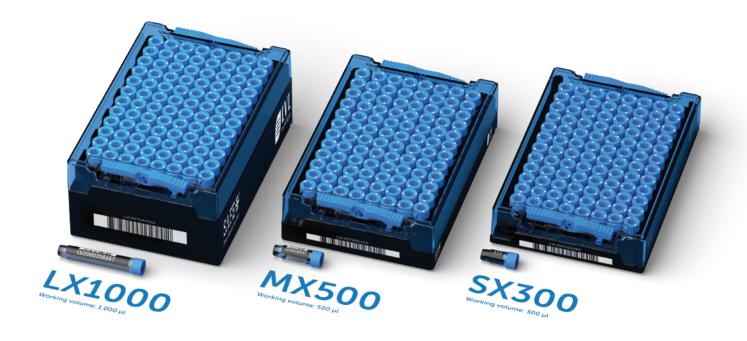
Sample Storage Range

Available from Pathtech

















What really matters

Biobanking, compound management, cryopreservation, population studies and transfusion medicine are just some of the possible applications for high-quality, long-term storage of biomaterials in the microlitre scale.

If you store large quantities of small samples in the medium to long terms for purposes of research and diagnostics, you generally have to deal with various requirements regarding the sample container to be used, from handling to storage through to the follow-up of the respective sample. The overriding priority must be the best possible conservation of sample quality and quantity,

This means that three things need to be guaranteed for the samples to be stored:

- 1. Security
- 2. Identifiability
- 3. Space saving storage

In addition, if automated processability is used in the laboratory, there is no better alternative for modern storage.



Handling

- Easy removal of sample container
- Problem free aliquoting, even when using automated laboratory systems.
- Minimum risk of cross-contamination
- Rapid opening and closing of containers
- Samples reliably assigned without the need for labelling
- Quick and error free identification of the specified coding



Storage

- Thermostability of the containers and receptacles
- Space-saving storage
- Problem-free transfer to stores even with automated storage systems



Traceability

- Maximum code security
- Unique coding
- Optimal legibility even at crypto temperatures
- Optional code redundancy



Sample Quality and Quantity

- Best possible sealing of the selected closure optionat crypto temperatures and room temperature
- Best possible sealing during transport under negative pressure
- High purity of the sample containers
- Lowest possible concentration of bioactive compounds in the plastic used

SAFE® – Store Aliquots For Ever

SAFE® 2D tubes from LVL technologies offer the greatest possible safety, automation capacity, flexibility and efficiency. Customers worldwide rely on SAFE for long term storage in:

- > Biobanking > Epidemiological studies > Clinical trials > Cohort studies > Transfusion medicine
- > Compound management > Forensics > Kit manufacturing > Food industry > Leak tightness

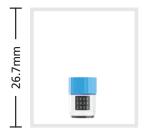
Explore our 2D tubes

Custom 2D coding options are available to meet your laboratory's individual database or tracking requirements. Please contact us to discuss your biobanking needs.

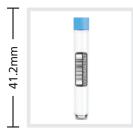
SAFE® 24 XT

Tubes with external thread (24 per rack)

XXLX 2000



XXLX 4000



XXLX 6000



XXLX 8000



SAFE® 48 XT

Tubes with external thread (48 per rack)

XLX 4000



XLX 2000



XLX 500



SAFE® 96 XT

Tubes with external thread (96 per rack)

XSX 200



SX 300



MX 500



LX1000



SAFE® 96 IT

Tubes with internal thread (96 per rack)

LI 1000

With tissue collection cap



LI 1000

With push cap



MI 500



SAFE® Capper / Decapper

Easily cap and decap our tubes

Manual 1 Channel Capper/Decapper/Picker



- > Can be used as a picker
- Enables end to end handling without direct contact with hands, minimizing the rise of contamination and heat transfer



Find out more on our website

LVL Automated 4, 6 and 8 channel Capper/Decapper



- > Cap 4, 6 or 8 tubes at once
- > Ergonomic design
- > Reliable capping / decapping
- > Power-saving mode

LVL Automated 96 Channel Capper/Decapper Quickly cap / decap one rack at a time



- > Fully automated
- > Standalone or integrated
- > Processes a full rack







Say Goodbye to Tag & Pen

The LVL Tube Laser Marker TLM 864



Although the automation-friendly data matrix code on the bottom of storage tubes has now been standard for many years – and has considerably simplified the handling of samples, many users still want to mark tubes with their own specific information. At the same time, they want to get away from time consuming and non-secure methods of labelling and lettering.

To meet precisely this need, LVL has developed a fully automatic tube laser marker. The TLM 864 can automatically laser-code SAFE® tubes in SBS 96, SBS 48 and SBS 24 formats from two sides and link the information in a database to the 2D code that was previously lasered-on during production. Up to 500 tubes per hour can be coded from nine SBS/ANSI positions.

The information to be applied is created and transmitted from an external PC, and the device is configured via an integrated touch screen.

Customer double-sided laser coding



Label up to 9 racks at once



Key specifications

- Affixing of labels no longer necessary
- Flexible for three SBS/ANSI formats: SBS 96, 48 and 24
- Can laser code tubes from two sides
- > Up to 500 tubes per hour
- Convenient CSV data exchange format

Technical data laser marker					
Dimensions	910 mm x 815 mm x 720 mm (H x W x D)				
Weight	120 kg				
Power supply	100-240V, 50/60Hz max. 16A at 230V				
Noise level	< 72 dB (A)				
Rack Positions	9				
Rack types	SAFE® SBS 96, 48, 24				
Speed	approx. 500 tubes per hour				
File exchange format	CSV				

Technical data suction device					
Dimensions	880 mm x 350 mm x 350 mm (H x W x D)				
Weight	55 kg				
Noise level	< 62 dB (A)				



Interested in the TLM? Scan to learn more.

SAFE® 96 IT

technologies	SX 300	MX 500	LX 1000	MI 500	LI 1000
Check out our new					
GEN 3					
Automation friendly					
Protective rim against mechanical influences					
• 1D side code / HR side code					
Open space for customized coding					
SAFE® low leachables medical polypropylene	444		000417895		200056879
2D coded tube bottoms	LV 2 0 0 0 6 6 0 15 2		1020	11 11 11 11 11 11 11 11 11 11 11 11 11	
	GEN 3	GEN 3	GEN 3	Tissue Collection Cap (middle) available for Ml 500 & Ll 1000	
Working Volume				available for M	1500 & LI 1000
with Screw Cap	300 µl	500 μl	1,000 µl	480 µl	1,000 µl
with Push Cap	300 µl	500 µl	1,000 µl	550 µl	1,070 µl
Storage Temperature					
with Screw Cap	- 196°C		- 196°C		
with Push Cap		- 80°C		- 80°C	
Outer Diameter		9.00 mm		9.00 mm	
Tube Height					
without Cap	18.5 mm	26.4 mm	46.8 mm	27.0 mm	45.1 mm
with Screw Cap	20.3 mm	28.2 mm	48.6 mm	33.4 mm	51.3 mm
with Push Cap	19.8 mm	27.8 mm	48.2 mm	28.5 mm	46.6 mm
Side code					
barcode 1D	n/a	Optional	Optional	Optional	
human readable		Optional		Opti	onal
Screw Caps					
pre-capped		Yes		Y	es
on Cap Rack	Yes		Yes		
Bulkware	Yes		Yes		
Optional Sterilization	Beta / ETO		Beta / ETO		
Availability	Rack, Bulk		Rack, Bulk		
Rack Height					
non capped Tubes	18.8 mm	26.8 mm	47.1 mm	27.6 mm	45.6 mm
screw capped Tubes	20.6 mm	28.6 mm	48.9 mm	34.2 mm	52.3 mm
with Rack Lid	24.6 mm	32.5 mm	52.6 mm	38.6 mm	54.5 mm













SAFE® 48 XT SAFE® 24 XT

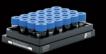
XLX 500	XLX 2000	XLX 4000	XXLX 2000	XXLX 4000	XXLX 6000	XXLX 8000	
	LV2000497842	LV2000429876	L V 2 0 2 0 3 9 2 9 3 0	W2000295619	LV2005679789		
GEN 3	Gen 2	Gen 1	Gen 2	Gen 2	Gen 2	Gen 2	
500 μl	2,000 µl	4,000 µl	2,000 µl	4,000 µl	6,000 µl	8,000 µl	
	n/a		n/a				
	- 196°C		- 196°C				
n/a			n/a				
	13.00 mm			17.80) mm		
16.1 mm	44.0 mm	82.9 mm	25.0 mm	39.4 mm	FF 7 mm	60.0 mm	
16.1 mm 18.3 mm	44.0 mm 45.6 mm	82.9 mm 84.4 mm	26.7 mm	41.2 mm	55.7 mm 57.8 mm	69.9 mm 72.0 mm	
	n/a	04.4 111111	20.7 111111	41.2 IIIIII n.		72.0 111111	
n/a	Opti	onal	Optional				
n/a Optional		Optional					
Yes			Yes				
Yes			Yes				
Yes			Yes				
Beta / ETO			Beta / ETO				
Rack, Bulk			Rack, Bulk				
46-		02.7	25.5	20.0	F.C. 0	70.0	
16.7 mm	44.5 mm	83.7 mm	25.5 mm	39.8 mm	56.0 mm	70.8 mm	
18.9 mm	46.0 mm	85.4 mm	27.2 mm	41.8 mm	58.2 mm	72.8 mm	
23.7 mm	50.2 mm	87.3 mm	29.9 mm	43.8 mm	60.6 mm	74.5 mm	















SAFE® 2D tubes

High performance fiber laser coding for unmatched contrast and readability.



2. 1D side code / HR side code

3. Open space for customized coding

4. SAFE® low leachables polypropylene

 Protection rim against mechanical influences (scratches)



New Cap Design

- Excellent sealing (100% IATA and CO2 test)
- > Easy manual handling
- Automation friendly cap

SAFE® SBS Racks

Fitting 24, 48 or 96 tubes

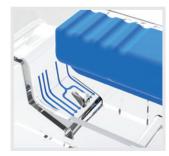
- Durable and clear polycarbonate lid
- Orientation Code



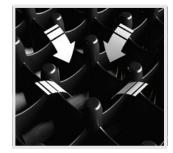
Key Features:



Easy LockOne simple move to open and close



Anti-freeze GradientPrevents ice formation



Tube CenteringAutomation friendly beveled domes



Curved Well Rim Safely guides tube and reduces collisions







SAFE® Accessories

Simple accessories that make life easier

Accessories Available:

Manual Tube Presenter

Product code: 114-TP96



Find your test tube at the first go

It is not unknown, under the busy everyday conditions in the lab, for the wrong tube to be inadvertently removed from the tightly packed SBS rack. D5 quickly turns into E6. Even if the error is detected during the scan, the process flow is interrupted. However, even the careful selection of the tube to be removed can become strenuous in the long run.

The use of the manual tube presenter overcomes all of these possible errors in the lab.

Semi Automated Tube Picker

Product code: 114-TPI96



Fast and reliable tube picking from 96 SBS racks.

Works with frozen and thawed tubes, generates picklists externally in other software applications, or create a template using the own software.

Can be connected to a 2D barcode scanner for tube confirmation and for generating picklists directly from the tube barcodes.

Manual Defrost Roller SBS

Product code: 114-DFR2-SBS

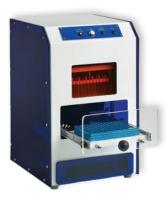


The formation of ice on the bottom of the tubes can make the reading process difficult. This is especially true, if the samples are stored in the nitrogen gas phase. So that the 2D codes can be read quickly in such cases, it not only requires a good reader but also the rapid removal of ice from the bottom of the tube.

The defrost roller is the perfect accessory for this purpose. Three rollers revolutionize the optimal application and usability.

Automated Tube Carrier

Product code: 114-RF96



Designed for mass transfer of sample tubes from a filled SBS 96 tube rack to an empty rack.

Rack contents (between 1 to 96 tubes) can be transferred to the same locations in the receiving rack at a rate of approximately one transfer per minute.

Notes

Notes

