

**SAFE® 96 XT**
**SAFE® 96 IT**
**SAFE® 48 XT**
**SAFE® 24 XT**

Check out our new

# GEN3

- Automation friendly
- Protective rim against mechanical influences
- 1D side code / human readable
- Open space for customized coding
- SAFE® 3L medical polypropylene


**2D coded tube bottoms**

|                               | SAFE® 96 XT    |          |          | SAFE® 96 IT   |          | SAFE® 48 XT    |          |          | SAFE® 24 XT    |           |           |           |  |
|-------------------------------|----------------|----------|----------|---|----------|----------------|----------|----------|----------------|-----------|-----------|-----------|--|
|                               | SX 300         | MX 500   | LX 1000  | MI 500  | LI 1000  | XLX 500        | XLX 2000 | XLX 4000 | XXLX 2000      | XXLX 4000 | XXLX 6000 | XXLX 8000 |  |
| <b>Working Volume</b>         | <b>GEN3</b>    |          |          | <b>Tissue Collection Cap (middle)</b><br>available for MI 500 & LI 1000 |          | <b>GEN3</b>    |          |          | <b>Gen 2</b>   |           |           |           |  |
| with Screw Cap                | 300 µl         | 500 µl   | 1,000 µl | 480 µl  | 1,000 µl | 500 µl         | 2,000 µl | 4,000 µl | 2,000 µl       | 4,000 µl  | 6,000 µl  | 8,000 µl  |  |
| with Push Cap                 | 300 µl         | 500 µl   | 1,000 µl | 550 µl  | 1,070 µl | n/a            |          |          | n/a            |           |           |           |  |
| <b>Storage Temperature</b>    |                |          |          |   |          |                |          |          |                |           |           |           |  |
| with Screw Cap                | - 196°C        |          |          | - 196°C   |          | - 196°C        |          |          | - 196°C        |           |           |           |  |
| with Push Cap                 | - 80°C         |          |          | - 80°C  |          | n/a            |          |          | n/a            |           |           |           |  |
| <b>Outer Diameter</b>         | 9.00 mm        |          |          | 9.00 mm   |          | 13.00 mm       |          |          | 17.80 mm       |           |           |           |  |
| <b>Tube Height</b>            |                |          |          |   |          |                |          |          |                |           |           |           |  |
| without Cap                   | 18.5 mm        | 26.4 mm  | 46.8 mm  | 27.0 mm   | 45.1 mm  | 16.1 mm        | 43.5 mm  | 76.6 mm  | 25.0 mm        | 39.4 mm   | 55.7 mm   | 69.9 mm   |  |
| with Screw Cap                | 20.3 mm        | 28.2 mm  | 48.6 mm  | 33.4 mm   | 51.3 mm  | 18.3 mm        | 45.4 mm  | 78.3 mm  | 26.7 mm        | 41.2 mm   | 57.8 mm   | 72.0 mm   |  |
| with Push Cap                 | 19.8 mm        | 27.8 mm  | 48.2 mm  | 28.5 mm   | 46.6 mm  | n/a            |          |          | n/a            |           |           |           |  |
| <b>Side code</b>              |                |          |          |   |          |                |          |          |                |           |           |           |  |
| barcode 1D                    | n/a            | Optional | Optional | Optional  |          | n/a            | Optional |          |                | Optional  |           |           |  |
| human readable                | Optional       |          |          | Optional  |          | n/a            | Optional |          |                | Optional  |           |           |  |
| <b>Screw Caps</b>             |                |          |          |   |          |                |          |          |                |           |           |           |  |
| pre-capped                    | Yes            |          |          | Yes   |          | Yes            |          |          | Yes            |           |           |           |  |
| on Cap Rack                   | Yes            |          |          | Yes   |          | Yes            |          |          | Yes            |           |           |           |  |
| Bulkware                      | Yes            |          |          | Yes   |          | Yes            |          |          | Yes            |           |           |           |  |
| <b>Optional Sterilization</b> | Beta / ETO     |          |          | Beta / ETO  |          | Beta / ETO     |          |          | Beta / ETO     |           |           |           |  |
| <b>Availability</b>           | SBS Rack, Bulk |          |          | SBS Rack, Bulk  |          | SBS Rack, Bulk |          |          | SBS Rack, Bulk |           |           |           |  |
| <b>Rack Height</b>            |                |          |          |   |          |                |          |          |                |           |           |           |  |
| non capped Tubes              | 18.8 mm        | 26.8 mm  | 47.1 mm  | 27.6 mm   | 45.6 mm  | 16.7 mm        | 43.8 mm  | 76.7 mm  | 25.5 mm        | 39.8 mm   | 56.0 mm   | 70.8 mm   |  |
| screw capped Tubes            | 20.6 mm        | 28.6 mm  | 48.9 mm  | 34.2 mm   | 52.3 mm  | 18.9 mm        | 45.7 mm  | 78.6 mm  | 27.2 mm        | 41.8 mm   | 58.2 mm   | 72.8 mm   |  |
| with Rack Lid                 | 24.6 mm        | 32.5 mm  | 52.6 mm  | 38.6 mm   | 54.5 mm  | 23.7 mm        | 50.2 mm  | 82.8 mm  | 29.9 mm        | 45.0 mm   | 61.5 mm   | 78.0 mm   |  |



# THE PERFECT TUBE FOR YOUR SAMPLE

Make sampling and storing secure, traceable, and automation friendly.



Alphanumeric Well Marking

## SAFE® RACKS

SAFE® Racks offer reliable, long-term storage down to -196 °C in a compact SBS format. Designed for seamless integration into automated systems and optimized for excellent manual handling, they combine flexibility, durability, and user-friendly design.

## SAFE® TUBES

### New cap design:

Innovative cap design with excellent sealing, easy manual handling and automation-friendly screw cap.

### Excellent sealing:

The tube feature outstanding sealing (**100% IATA and CO2 test**) that provides the highest security and reliability for your samples. LVL is the only supplier to use a two-component axial seal (**TCAS**) for its externally threaded tubes, which is based on the compression of TPE by PP. The TCA seal guarantees a durable and robust seal against liquids and gases. The fact that this type of seal is particularly effective is proven by the results of two standard tests that LVL commissioned from an external and independent organization.

### Easy manual handling:

The tube is designed for easy manual handling to maximize user-friendliness.

### Automation-friendly closure:

The closure is designed to integrate seamlessly into automated processes.

### Screw Cap Colors:

Choose from over 19 different colors for your screw cap to distinguish between different samples.



### New SAFE® L3 Medical:

Virgin, medical-grade Polypropylen (USP VI) with low leachables, low binding and low permeability properties. Cleanroom manufactured and free of DNase, RNase, DNA, RNA, Endotoxin.

### Space for Custom Coding:

The tube offers sufficient space for custom coding, allowing you to add specific information related to your lab or samples. Side free space in black is standardly laser-etched with the LVL logo and can be customized to your preferences at no extra cost.

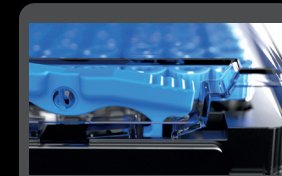
### 2D bottom code with protective rim:

The tube features a unique 2D bottom code for quick identification. A special protective rim safeguards against mechanical impacts and prevents scratches, ensuring the integrity of your samples.



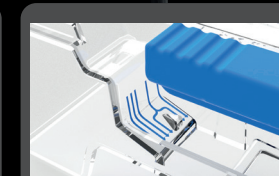
Side Rack Coding

Orientation Code



### Easy Lock

Smart and easy lid locking mechanism. Press to open. Press to close. So easy and efficient, without breaking nails.



### Anti-freeze gradient

The anti-freeze gradient effectively prevents the formation of ice, which is particularly beneficial in environments with ultra low temperatures.



### Tube Centering

The automation-friendly angled guiding pins ensure precise tube centering, reduce collisions, and optimize workflow in automated systems.



### Curved Well Dividers

The protected design of the curved well dividers ensure optimal tube placement, reducing the risk of collisions ensuring smooth handling and eliminate errors.



### Orientation Code

2D orientation code on the underside of the racks and further coding options on the underside of the racks for automated sample processing optionally possible.

### Side 1D barcode & side clear text:

The 1D barcode on the side is identical to the 2D bottom code of the tube, primarily securing the valuable sample contents. Additionally, the 1D barcode is present as a readable text.

### This triple security:

- Bottom code (2D)
- Side barcode (1D)
- Code on side as human readable code ensures that your samples are not only secure but also easily identifiable.

## FIND THE PERFECT TUBE FOR YOUR SAMPLE



Link: Tube-Configurator

## Suitable for the following SAFE® devices and accessories



Fully customizable

High Contrast Coding

Low Leachables Medical Polypropylene

U-Bottom for maximum Capacity with minimum dead volume

# 100% IATA & CO2 TEST LEAK PROOF

Unique 12-Digit Code

Automation Friendly System

E-BEAM / ETO STERILIZATION

Temperature up to -196°C

Find out more: [LVL technologies](#)

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