

b.safe

HPLC Sets

Secure your price advantage now!



A Brand of Bohlender



b.safe Starter Boxes

Material: **PTFE, PP-GF** | Temperature resistance: **-20 °C to +200 °C** | Chemical resistance: **+++ universal**

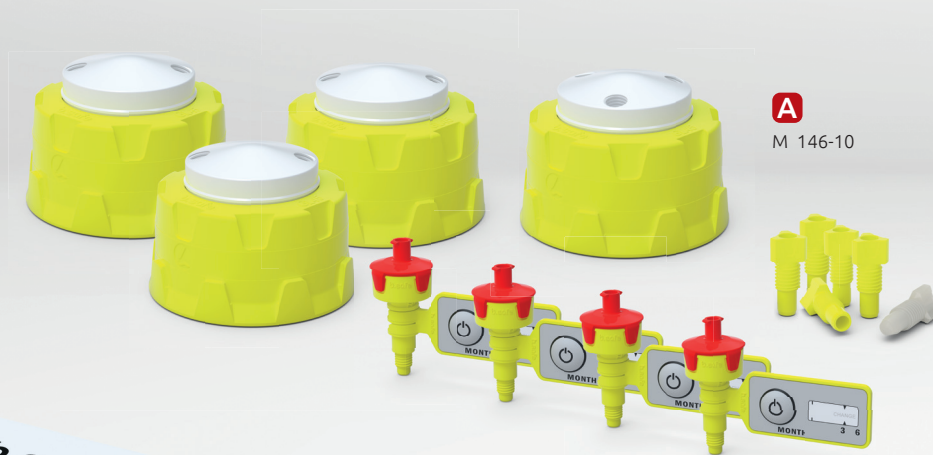
HPLC-Sets for solvent supply containing b.safe caps GL 45 for four bottles, PFA-Fittings for capillaries with O. D. 3,2 mm, Blind Fittings made of PFA to close unused connections as well as Air Valves with service life indicator. Version and scope of delivery as per below chart.

Application: Perfectly matched system for extraction of eluents. Tubing can be inserted onto the ground of the bottle by means of the b.safe Fittings made of PFA. The conical seal cone clamps the tubing and seals the connection safely. The b.safe Air Valve is especially adap-

ted to the flow rate in HPLC. The integrated non-return valve avoids evaporation of solvents and lets flow ambient air into the bottle in case of vacuum. The upstream porous PTFE membrane restrains pollutant particles and other contaminations from outside. The 6 months service life of the Air Valve can be easily monitored through either activating the display on the service life indicator and exchanging the valve in case of completely red colouring or documentation of the exchange date by hand and clip on the service life indicator at the valve.

Contains everything you
need for **safe and
efficient extraction!**

Price advantage up to
30%



A
M 146-10

Scope of delivery Starter Box A



A

M 146-10

**B**

M 146-20

**C**

M 146-30

**b.safe Starter Set Premium**

» Seite 4

Do you also need bottles?
Then our Premium Starter Set is the perfect choice.



Description	Scope of delivery	Single article	Cat. No.
A Starter Box A	3 x b.safe Cap GL45 with 1 capillary connection 1 x b.safe Cap GL45 with 2 capillary connections 4 x Air Valves with service life indicator 5 x Fittings for tubing O. D. 3,2 mm (yellow) 1 x Blind fitting (milky white)	M 145-01 M 145-02 M 505-01 (PE 2 Pcs.) M 501-18 M 501-01	M 146-10
B Starter Box B	4 x b.safe Caps GL45 with 2 capillary connections 4 x Air Valves with service life indicator 8 x Fittings for tubing O. D. 3,2 mm (yellow) 4 x Blind fittings (milky white)	M 145-02 M 505-01 (PE 2 Pcs.) M 501-18 M 501-01	M 146-20
C Starter Box C	4 x b.safe Caps GL45 with 3 capillary connections 4 x Air Valves with service life indicator 12 x Fittings for tubing O. D. 3,2 mm (yellow) 8 x Blind fittings (milky white)	M 145-03 M 505-01 (PE 2 Pcs.) M 501-18 M 501-01	M 146-30

**With the Starter Box C, you have more connection options.**

In case these aren't needed, there are the practical b.safe blind fittings for closing off unneeded access points – flexibility even later!





b.safe Starter Sets Premium

Material: **PTFE, PP-GF** | Temperature resistance: **-20 °C to +200 °C** | Chemical resistance: **+++ universal**

HPLC-Sets for solvent supply of one HPLC containing for laboratory flasks GL 45 / 1000 ml made of borosilicate glass, suitable b.safe Capas GL 45, Air Valves with service life indicator, Fittings for capillaries with OD 1,6 mm / 2.2 mm / 3.2 mm and Blind Fittings to close unused connections. Version and scope of delivery of each set as per below chart.

Application: Perfectly matched system for extraction of eluents. Tubing can be inserted onto the ground of the bottle by means of the b.safe Fittings made of PFA. The conical seal cone clamps the tubing and seals the

connection safely. The b.safe Air Valve is especially adapted to the flow rate in HPLC. The integrated non-return valve avoids evaporation of solvents and lets flow ambient air into the bottle in case of vacuum. The upstream porous PTFE membrane restrains pollutant particles and other contaminations from outside. The 6 months service life of the Air Valve can be easily monitored through either activating the display on the service life indicator and exchanging the valve in case of completely red colouring or documentation of the exchange date by hand and clip on the service life indicator at the valve.

Contains everything you need
for **safe and efficient extraction!**

Includes **4 laboratory bottles** and
additional fittings!





+ b.safe HPLC-All-In-One Box

» Seite 102

Do you also want to cover waste disposal costs?
Discover our All-In-One Box!



Description	Scope of delivery	Single article	Cat. No.
A Starter Set Premium A	3 x b.safe Cap GL45 with 1 capillary connection 1 x b.safe Cap GL45 with 2 capillary connections 4 x Air Valves with service life indicator 4 x Fittings for tubing O. D. 3,2 mm (yellow) 10 x Fittings for tubing O. D. 1,6 mm (green) 10 x Fittings for tubing O. D. 2,2 mm (purple) 1 x Blind fitting (milky-white) 4 x b.safe Laboratory Flask GL45 / 1000 ml	M 145-01 M 145-02 M 505-01 (PE 2 Pcs.) M 501-18 M 501-06 M 501-11 M 501-01 R 100-45	R 9940-10
B Starter Set Premium B	4 x b.safe Cap GL 45 with 2 capillary connections 4 x Air Valves with service life indicator 8 x Fittings for tubing O. D. 3,2 mm (yellow) 10 x Fittings for tubing O. D. 1,6 mm (green) 10 x Fittings for tubing O. D. 2,2 mm (purple) 4 x Blind fitting (milky-white) 4 x b.safe Laboratory Flask GL45 / 1000 ml	M 145-02 M 505-01 (PE 2 Pcs.) M 501-18 M 501-06 M 501-11 M 501-01 R 100-45	R 9940-20
C Starter Set Premium C	4 x b.safe Cap GL45 with 3 capillary connections 4 x Air Valves with service life indicator 12 x Fittings for tubing O. D. 3,2 mm (yellow) 10 x Fittings for tubing O. D. 1,6 mm (green) 10 x Fittings for tubing O. D. 2,2 mm (purple) 8 x Blind fitting (milky-white) 4 x b.safe Laboratory Flask GL45 / 1000 ml	M 145-03 M 505-01 (PE 2 Pcs.) M 501-18 M 501-06 M 501-11 M 501-01 R 100-45	R 9940-30



b.safe HPLC Starter Set Waste

Material: **PTFE, PP-GF, PE** | Temperature resistance: **0 bis +80 °C** | Chemical resistance: **++ very good**

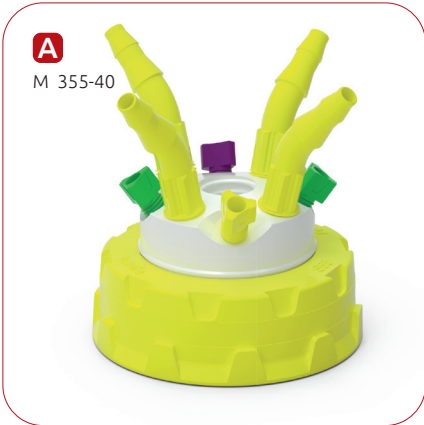
Complete set for disposing of liquid solvent waste of one HPLC system. Containing one Waste Cap S55, two exhaust filters size M and a PE-canister S55 with 10 litres capacity for collecting the solvent waste. The scope of delivery of the b.safe Waste Cap includes PFA Fittings for capillary O. D. 1,6/2,2/3,2 mm, Blind Fitting in PFA to close unused connections and Air hose connectors for tubing I. D. 5,5-8 mm. Version and scope of delivery as

per below chart. Consumables (Exhaust Filter) for a 12 months service life included.

Application: Perfect system to set up a safe disposal of HPLC solvent waste. Using the Waste Cap, waste tubes can be connected directly to the canister. Solvent vapours from the escaping air during filling are restrained by the Exhaust Filter containing activated carbon.

» Save yourself the hassle of assembling individual components. Buy a set and save valuable time. «





b.safe HPLC Starter Set Waste Scope of delivery	Single article	Cat. No.
A 1x b.safe Waste Cap S55 with 4x capillary connection 4x hose connectors 1x connection to screw in an exhaust filter including: 4x Fittings for capillaries O. D. 1,6 mm (green) 4x Fittings for capillaries O. D. 2,2 mm (purple) 4x Fittings for capillaries O. D. 3,2 mm (yellow) 4x Blind Fitting for capillary connection 4x Hose Connector for tubing I. D. 5,5-8 mm 4x Blind Fitting for tube connection	M 355-40	R 9920-55
B 2 x b.safe Exhaust Filter M , service life 6 months	M 506-02 (PE 2 Pcs.)	
C 1 x Canister S55 in PE-HD, capacity 10 litres	R 225-10	



b.safe HPLC All-In-One Box

Material: **PTFE, PP-GF** | Temperature resistance: **0 °C bis +110 °C** | Chemical resistance: **++ very good**

Complete set for equipping one HPLC system. Containing b.safe Caps GL45 for four laboratory flasks for solvent extraction as well as a b.safe Waste Cape with Exhaust Filter and a Canister for safe collection of solvent waste. The scope of delivery of the b.safe Caps includes PFA fittings for capillary O. D. 3,2 mm, Blind Fitting in PFA to close unused connections and Air Valves with service life indicator. For the collection of waste, the set includes a PE-canister S55 with 5-litre capacity, a suitable Waste Cap S55 and one Exhaust Filter L. The scope of delivery of the Waste Cap includes PFA Fittings for capillaries with OD 1,6/2,2/3,2 mm, Blind Fittings to close unused connections, tubing connectors for tubing I. D. 5,5-8 mm. Version

and scope of delivery as per below chart. Consumables (Air Valves, Exhaust Filter) for a 12 months service life included.

Application: Perfect set for the initial equipment of your HPLC system. Using b.safe Caps, eluents are directly extracted from laboratory flasks. The Air Valve prevents evaporation of solvents and only allows as much air to flow into the bottle as is necessary to equalize the pressure. Waste tubing are connected directly to the canister with the b.safe Waste Cap. The Exhaust Filter with activated carbon filling reliably restrains solvent vapours from the air escaping during filling.

Everything you need
for your HPLC in one kit!
Consumables included
for 1 year!

Price advantage up to
30%



b.safe HPLC-All-In-One Box**Scope of delivery**

- 3x b.safe Cap GL45** with
1x capillary connection
including:
1x Fitting for Tubing O. D. 3,2 mm (yellow)
1x Air Valve with service life indicator
- 1x b.safe Cap GL45** with
2x capillary connection
including:
2x Fitting for Tubing O. D. 3,2 mm (yellow)
1x Blind Fitting,
1x Air Valve with service life indicator
- 4x b.safe Air Valve** with service life indicator 6 months
- 1x b.safe Waste Cap S55** with
4x capillary connection
4x hose connector,
1x connector for exhaust filter
including:
4x Fittings for capillaries O. D. 1,6 mm (green)
4x Fittings for capillaries O. D. 2,2 mm (purple)
4x Fittings for capillaries O. D. 3,2 mm (yellow)
4x Blind Fitting for capillary connection
4x Hose Connector for tubing I. D. 5,5-8 mm
4x Blind Fitting for tube connection
- 1x b.safe Hose Connector** for tubing I. D. 9-10,5 mm
- 1x b.safe Exhaust Filter L**, service life 12 months
- 1x b.safe Canister S55 PE**, capacity 5 litres

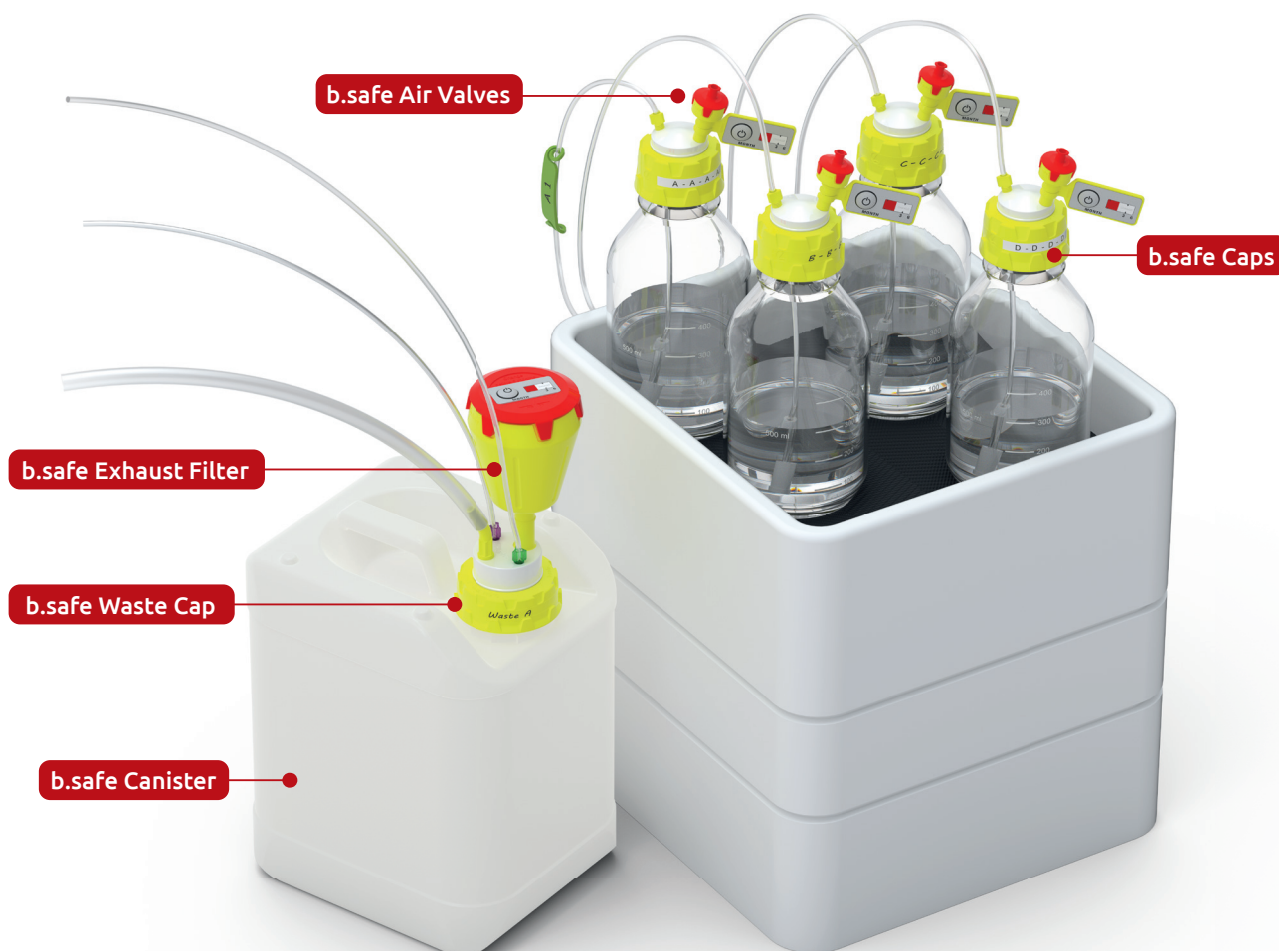
Single article**Cat. No.**

M 145-01	R 9900-10
M 145-02	
M 505-01 (PE 2 Pcs.) M 355-40	
M 503-16	
M 506-03 (PE 2 Pcs.)	
R 225-05	

+ Do you also need laboratory bottles?

» Seite 10

Then discover our
**HPLC All-In-One Set
Premium!**





b.safe HPLC All-In-One Set Premium

Material: **PTFE, PP-GF** | Temperature resistance: **0 °C bis +110 °C** | Chemical resistance: **++ very good**

Complete set for equipping one HPLC system. Containing four laboratory flasks GL45 / 1000 ml made of borosilicate glass, suitable b.safe Caps GL 45 for the extraction of eluents. For the collection of waste, the set includes PE-canister S55 with 5-litre capacity, a suitable b.safe Waste Cap and one b.safe Exhaust Filter L. The scope of delivery of the b.safe Caps includes PFA Fittings for capillary O. D. 3,2 mm, Blind Fitting in PFA to close unused connections and Air Valves with service life indicator. The scope of delivery of the Waste Cap includes PFA Fittings for capillaries with OD 1,6/2,2/3,2 mm, Blind Fittings to close unused connections, tubing connectors for tubing I. D. 5,5-8 mm. Version and scope of delivery as per be-

low chart. Consumables (Air Valves, Exhaust Filter) for a 12 months service life included.

Application: Perfect set for the initial equipment of your HPLC system. Using b.safe Caps, eluents are directly extracted from laboratory flasks. The Air Valve prevents evaporation of solvents and only allows as much air to flow into the bottle as is necessary to equalize the pressure. Waste tubing are connected directly to the canister with the b.safe Waste Cap. The Exhaust Filter with activated carbon filling reliably restrains solvent vapours from the air escaping during filling.

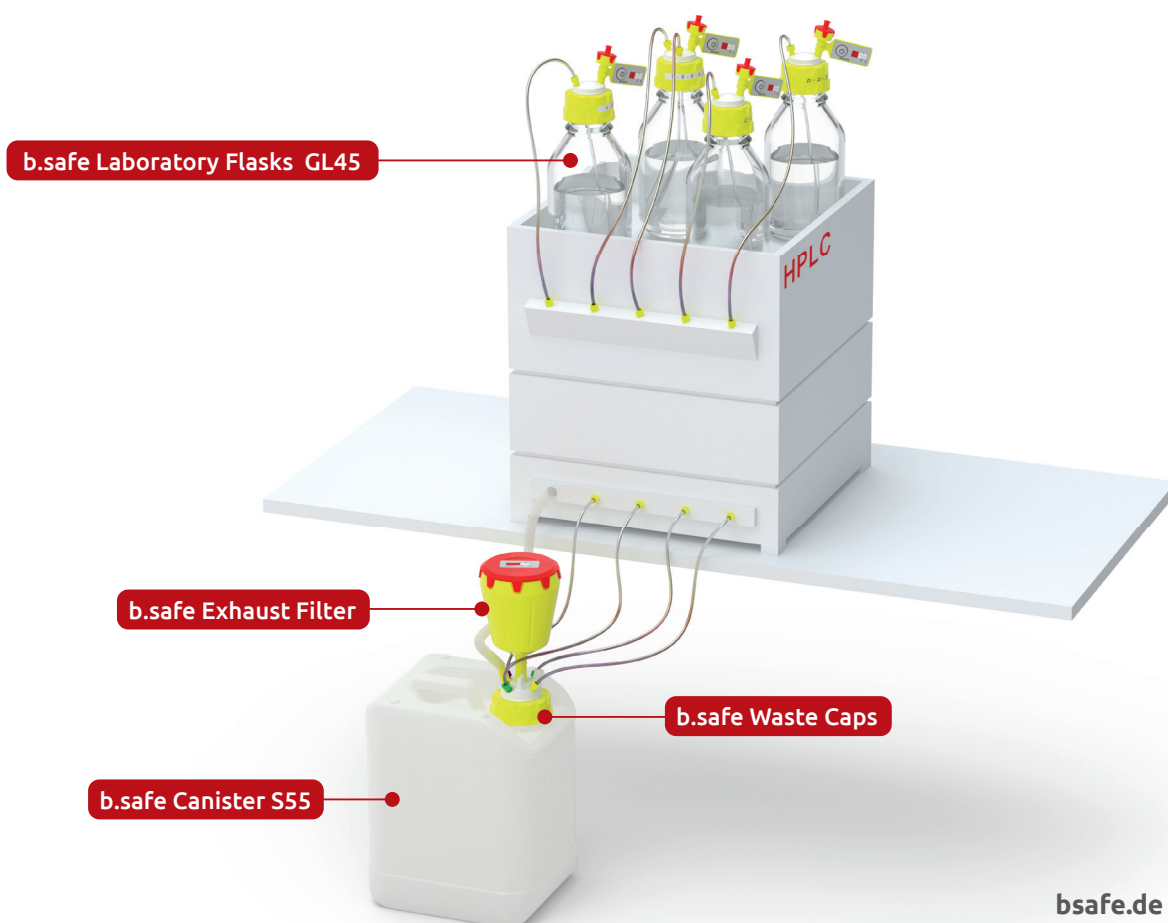
Includes **4 laboratory bottles**
and **additional fittings!**

Consumables included
for 1 year!



b.safe HPLC-All-In-One Set Premium**Scope of delivery**

	Single article	Cat. No.
3x b.safe Cap GL45 with 1x capillary connection including: 1x Fitting for Tubing O. D. 3,2 mm (yellow) 1x Air Valve with service life indicator	M 145-01	R 9905-15
1x b.safe Cap GL45 with 2x capillary connection including: 2x Fitting for Tubing O. D. 3,2 mm (yellow) 1x Blind fitting, 1x Air Valve with service life indicator	M 145-02	
4x b.safe Air Valve with service life indicator 6 months	M 505-01 (PE 2 Pcs.)	
4x Laboratory Flask GL45 1000 ml	R 100-45	
10x Fittings for tubing O. D. 1,6 mm (green)	M 501-06	
10x Fittings for tubing O. D. 2,2 mm (purple)	M 501-11	
1x b.safe Waste Cap S55 with 4x capillary connection 4x hose connector, 1x connector for exhaust filter including: 4x Fittings for capillaries O. D. 1,6 mm (green) 4x Fittings for capillaries O. D. 2,2 mm (purple) 4x Fittings for capillaries O. D. 3,2 mm (yellow) 4x Blind Fitting for capillary connection 4x Hose Connector for tubing I. D. 5,5-8 mm 4x Blind Fitting for tube connection	M 355-40	
1x b.safe Hose Connector for tubing I. D. 9-10,5 mm	M 503-16	
1x b.safe Exhaust Filter L , service life 12 months	M 506-03 (PE 2 Pcs.)	
1x b.safe Canister S55 PE, capacity 5 litres	R 225-05	





b.safe Level Control Set

Set for monitoring the fill level or empty level of containers and canisters made of non-conductive materials consisting of b.safe Disk Sensor, signal cable and b.safe Mini-Display Table.

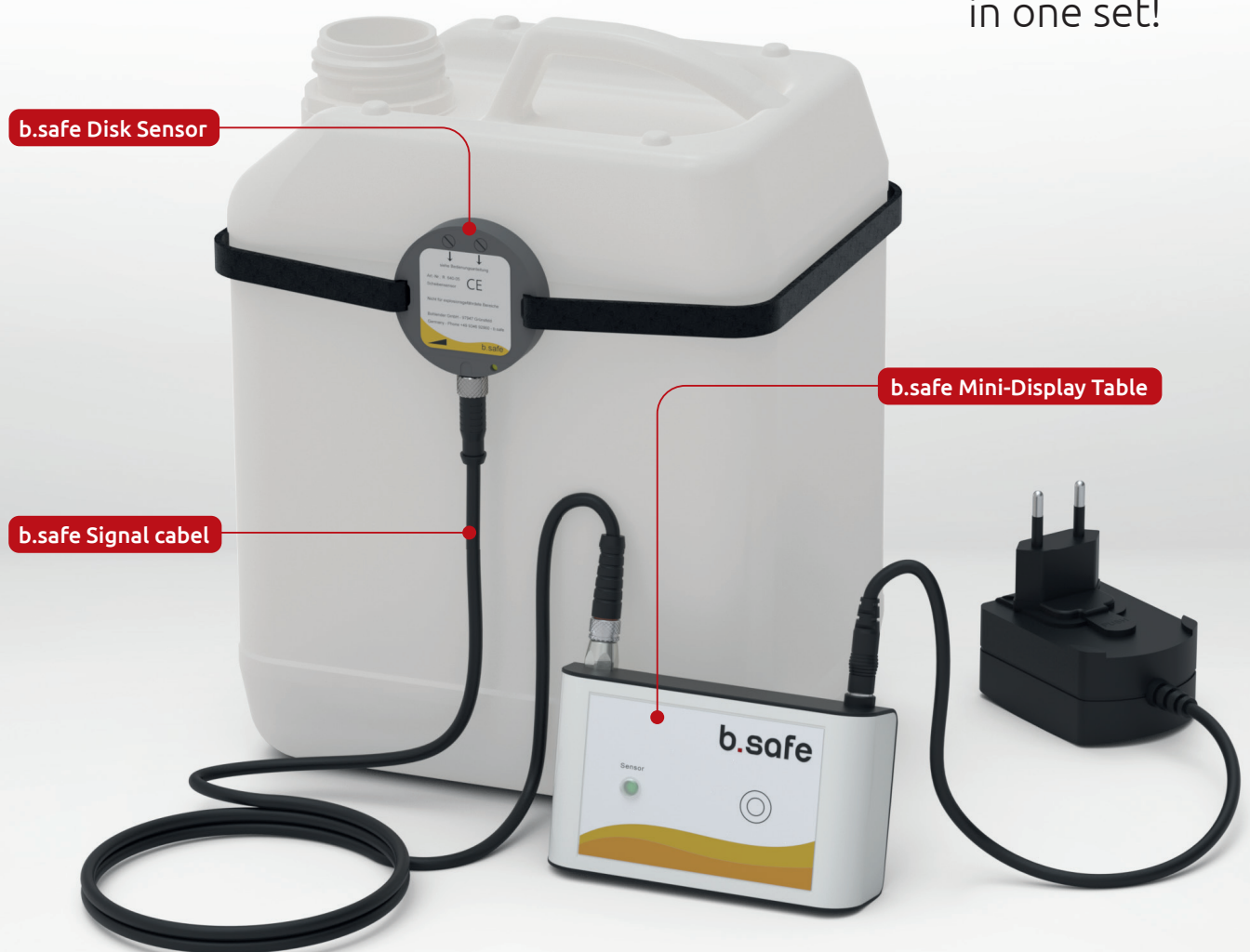
The Disk Sensor can be set to being an indicator for fill level or empty level as required, please observe the operating instructions. The sensor is simply fixed on the canister using the included hook-and-loop tape or the self-adhesive hook-and-loop strip. The sensor is connected to the alarm box b.safe Mini Display with the signal cable. The compact plastic housing can be set up in the workspace.

Once fill level to be monitored is reached, the status LED on the Mini-Display lights up red and an acoustic alarm

starts. The acoustic alarm can be paused for 5 minutes at a time. As soon as the canister has been exchanged, the Mini-Display can be reset and the control lamp turns to green. b.safe Mini-Display Table including power supply (Input: AC 100-240V/50-60 Hz, 1 A, Output: 24 V DC, 0,5 A) with plugs for EU, Australia, USA, Japan and UK. Not suitable for use in EX zones or with an isolating amplifier.

Application: Monitoring of the fill level or empty level of containers and canisters made of non-conductive materials like plastics or glass. Avoid spill over of collection canisters or storage canisters running empty by timely alarms.

Everything you need
for level control
in one set!





b.safe Level Control Set
Scope of delivery

	Single article	Cat. No.
A 1 x Mini-Display Table, 1 channel	R 659-01	R 9950-05
B 1 x Disk Sensor including: 1x b.safe Hook-and-Look Tape, width 10 mm x length 2 m 1x b.safe Hook-and-Loop Strips, two-part, width 25 x length 25 mm	R 640-05 R 647-02 R 648-01	
C 1 x Signal cable, length 2 m, connection 1: socket, connection 2: plug	R 645-02	



b.safe Disposal Set Funnel

Material: **PE-HD, PP** | Temperature resistance: **-50 bis +80 °C** | Chemical resistance: **+++ universal**

Set consisting of b.safe Funnel and matching 10-liter canister with thread S55 for the disposal of liquid HPLC waste. The freely rotatable cap is firmly attached to the filling neck of the funnel and thus allows to fix the funnel safely on the canister. The sieve, which can be re-

moved for cleaning, restrains magnetic stirring bars, for example, or other solids while the hinged lid prevents harmful vapors from escaping from the canister.



b.safe HPLC Disposal Set Funnel Scope of delivery

- A** 1 x b.safe Funnel 130, in PE, for thread S55
- B** 1 x b.safe Canister S55, in PE-HD, volume 10 liters

Single
article

Cat. No.

R 831-40

R 9960-06

R 225-10





b.safe Funnel Control Set

Material: **PE-EX, PP-GF** | Temperature resistance: **-50 bis +80 °C** | Chemical resistance: **+++ universell**

Set consisting of b.safe Funnel 130 with integrated level indicator and matching 10-liter canister with thread S60 for the disposal of liquid HPLC waste. All materials used are made of static dissipative PE-EX, with professional earthing of the system, static charging is avoided. The level indicator integrated in the funnel consists of a float with a red indicator pin. As soon as the indicator pin is visible above the top edge of the sieve, the waste container has to be exchanged to avoid spillover.

The sieve, which can be removed for cleaning, restrains magnetic stirring bars, for example, or other solids while the hinged lid lid prevents harmful vapors from escaping from the canister.

Thanks to the inclined cap, the funnel can be positioned horizontally on the canister with inclined filling neck.

b.safe Funnel Control Set Scope of delivery	Single article	Cat. No.
A 1 x b.safe Funnel 130, in PE-HD-EX with level control	R 840-26	R 9970-07
B 1 x b.safe Canister S60 inclined, in PE-HD-EX, volume 10 liters	R 236-10	



