

Special Documentation

CY80TP

Mixing the reagents
For Liquiline System CA80TP



1 Safety instructions

⚠ WARNING

Chemicals can have sensitizing properties, can cause damage to health or serious injuries and can be oxidizing agents!

- ▶ Wear protective goggles, protective gloves and a lab coat when working with chemicals.
- ▶ Avoid any skin contact with chemicals.
- ▶ Keep away from food, drink, animal feed and flammable substances.
- ▶ Comply with instructions in the safety data sheets for the chemicals used.

Information regarding the shelf life

- ▶ Mix reagents directly before use.
- ▶ If several reagent sets are ordered: store individual components of the reagent unmixed.
- ▶ Under unfavorable ambient conditions, the shelf life of the reagents can expire even before the reagents are consumed.

2 Scope of delivery

- Labels for marking the ready-to-use reagents
- 1 printed version of Special Documentation
- Order version CY80TP-FF+SO
 - Component 1, reagent RB (1000 ml (33.8 fl oz) bottle)
 - Component 1, reagent RK (1000 ml (33.8 fl oz) bottle)
 - 2 × component 1, reagent RN (1000 ml (33.8 fl oz) bottle)
 - 2 × component 2, reagent RN (100 ml (3.38 fl oz) bottle)
 - 2 × component 3, reagent RN (100 ml (3.38 fl oz) bottle)
- Order version CY80TP-FF+SE
 - Component 1, reagent RB (1000 ml (33.8 fl oz) bottle)
 - Component 1, reagent RK (1000 ml (33.8 fl oz) bottle)
 - 2 × reagent RN, ready-to-use (1000 ml (33.8 fl oz) bottle)
- Order version CY80TP-FF-SU
 - 2 x component 1, reagent RB (1000 ml (33.8 fl oz) bottle)
 - Component 1, reagent RK (1000 ml (33.8 fl oz) bottle)
 - 2 × reagent RN, ready-to-use (1000 ml (33.8 fl oz) bottle)
- Order version CY80TP-FF-SV
 - Component 1, reagent RB (1000 ml (33.8 fl oz) bottle)
 - 2 x component 1, reagent RK (1000 ml (33.8 fl oz) bottle)
 - 2 × reagent RN, ready-to-use (1000 ml (33.8 fl oz) bottle)
- Order version CY80TP-FF-SW
 - 2 x Component 1, reagent RB (1000 ml (33.8 fl oz) bottle)
 - 2 x Component 1, reagent RK (1000 ml (33.8 fl oz) bottle)
 - 2 × reagent RN, ready-to-use (1000 ml (33.8 fl oz) bottle)

3 Materials

CY80TP-FF+SO

Prepare the following materials and tools:

- 2 beakers, 500 ml (16.9 fl oz)
- 2 glass rods
- 2350 ml (79.5 fl oz) of deionized water (warmer than 15 °C (59 °F))

CY80TP-FF-SE and CY80TP-FF-SU/SV/SW

Prepare the following materials and tools:

- 1950 ml (65.9 fl oz) of deionized water (warmer than 15 °C (59 °F))

4 Reagent set CY80TP-FF+SO

4.1 Mixing

4.1.1 Digestion reagent RB

Starting products: Component 1, reagent RB

1. Open the black safety bottle.
2. Transfer 1000 ml (33.8 fl oz) of deionized water into the bottle.
3. Seal the black safety bottle.
4. Shake the bottle well for a few minutes until the powder has completely dissolved.
5. Leave it stand for 5 minutes.
6. Repeat steps 4 and 5 twice.
7. Mark the expiration date on the label for the ready-to-use reagent.
8. Attach the label for the ready-to-use reagent to the black safety bottle.



Store reagent RB in a cool place away from light.

4.1.2 Reagent RK

Starting products: Component 1, reagent RK

1. Open the black safety bottle.
2. Transfer 950 ml (32.1 fl oz) of deionized water into the bottle.
3. Seal the black safety bottle.
4. Shake the bottle well for a few minutes until the powder has completely dissolved.
5. Leave it stand for 5 minutes.
6. Repeat steps 4 and 5 twice.
7. Mark the expiration date on the label for the ready-to-use reagent.
8. Attach the label for the ready-to-use reagent to the black safety bottle.

- When using an analyzer with a cooling system, place the reagent in the cooled compartment of the bottle tray.



Store reagent RK in a cool place away from light.

Normal coloring: Colorless; following advanced decomposition: Dark brown to black

4.1.3 Reagent RN



Two bottles of each of the components 1, 2, and 3 are provided.

First use **the first** bottle of each of the components 1, 2 and 3 to mix the reagent.

Only mix the second bottles of components 1, 2 and 3 after the first mixture has been used.

Starting products: Component 1, reagent RN; component 2, reagent RN; component 3, reagent RN

- Place component 2 in a 500 ml (16.9 fl oz) beaker.
- Fill with deionized water up to 200 ml (6.76 fl oz).
- Stir using a glass rod until the component is fully dissolved.
- Using a funnel, transfer the contents of the beaker into the 1 liter (33.8 fl oz) bottle (provided). This bottle already contains component 1.
- Shake the sealed bottle well.
 - ↳ It is normal for the mixture to heat up a little.
- Place component 3 in the unused beaker and fill with deionized water up to 200 ml (6.76 fl oz).
- Stir using a glass rod until the solution is homogeneous.
- Using a funnel, transfer the contents of the beaker into the 1 liter (33.8 fl oz) bottle. This already contains the mixture of component 1 and component 2.
- Shake the sealed bottle well.
- Mark the expiration date on the label for the ready-to-use reagent.
- Attach the label for the ready-to-use reagent to the black safety bottle.



Store reagent RN in a cool place away from light.

Normal coloring: Colorless; following advanced decomposition: Bluish

4.2 Shelf life

Ready-to-prepare reagent	12 months
Ready-to-use reagent	6 months, chilled (RK)
	12 months (RN)
	3 months (RB)

5 Reagent set CY80TP-FF+SE and CY80TP-FF-SU/SV/SW

5.1 Mixing

1. Mix reagents RB and RK as described in Section 1.
2. Use ready-to-use reagent RN.

5.2 Shelf life

Ready-to-use reagent	6 months, chilled (RK)
	12 months (RN)
	3 months (RB)



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