

## LC Column & Detector Test Mixes

### LC Normal Phase Test Mix #1 (4 components)

Routine analysis using this mix can assist in determining the need to perform column and/or system maintenance.

Benzene (71-43-2)	1.00 mg/mL	Benzyl alcohol (100-51-6)	3.00
Benzaldehyde (100-52-7)	0.04	4-Methoxybenzyl alcohol (105-13-5)	2.00

In hexane, 1 mL/ampul

cat.# 35004 (ea.)

### LC Reversed Phase Test Mix #1 (4 components)

Routine analysis using this mix can assist in determining the need to perform column and/or system maintenance.

Benzene (71-43-2)	3.00 mg/mL	Naphthalene (91-20-3)	0.50
Biphenyl (92-52-4)	0.06	Uracil (66-22-8)	0.02

In methanol:water (75:25), 1 mL/ampul

cat.# 35005 (ea.)

### LC Performance Test Mix (5 components)

- Highly effective for characterizing LC column parameters.
- Simple, easy, reliable approach to quality control (QC) evaluations or column classification.
- Monitor column performance over time.

The National Institute of Standards and Technology (NIST) has formulated a mixture that is highly effective for characterizing LC columns for efficiency, void volume, methylene selectivity, retentiveness, and activity toward chelators and organic bases. Results can be used for column classification, for column selection, for monitoring column performance over time, or for quality control. We test our material against the NIST 870 standard.

Amitriptyline hydrochloride (549-18-8)	2,800 µg/mL	Quinizarin (81-64-1)	94
Ethylbenzene (100-41-4)	1,700	Toluene (108-88-3)	1,400
		Uracil (66-22-8)	28

In methanol, 1 mL/ampul

cat.# 31699 (ea.)

For Restek's complete line of column test mixes, visit

[www.restek.com/testmixes](http://www.restek.com/testmixes)



### Carbohydrate LC Performance Check Mix (5 components)

Performance qualification (PQ) determines the precision of the LC system. Our performance check mix for LC-RI consists of five simple sugars in varied concentrations. We prepare the reference material in water, dehydrate it, and package it dry for enhanced stability.

Glucose (50-99-7)	2.1 mg	Maltose (6363-53-7)	4.5
Fructose (57-48-7)	2.0	Sucrose (57-50-1)	4.0
Lactose (5989-81-1)	4.4		

Dry components in 4 mL screw-cap vial. Reconstitute in 1 mL acetonitrile:water (75:25) to 2.1, 2.0, 4.4, 4.5, 4.0 mg/mL, respectively.

cat.# 31809 (ea.)

No data pack available.

### LC OQ Wavelength Accuracy Standard

Erbium perchlorate (14017-55-1)

10 mg/mL in water, 5 mL/ampul

cat.# 31053 (ea.)

No data pack available.

### LC OQ Gradient Standard (Acetone)

Acetone (67-64-1)

Neat, 1 mL/ampul

cat.# 30012 (ea.)

No data pack available.

### LC OQ Linearity Test Mix Kit

Linear detector responses to concentration variations are an important part of operation qualification (OQ) for LC instruments. Our kit of five aqueous solutions of caffeine can be used to generate simple plots of UV response versus concentration. Certificate of analysis includes caffeine concentration, calculated variance in preparing each mixture, a linearity plot, and coefficient of determination ( $r^2$ ) for the linear plot.

Contains 1 mL each of these mixtures.

- 31804: Caffeine (caffeine at 5 µg/mL in water)
- 31803: Caffeine (caffeine at 25 µg/mL in water)
- 31802: Caffeine (caffeine at 125 µg/mL in water)
- 31801: Caffeine (caffeine at 250 µg/mL in water)
- 31800: Caffeine (caffeine at 500 µg/mL in water)

1 mL each of these mixtures.

cat.# 31805 (kit)

kit

No data pack available.

### LC OQ Standards Kit

Contains the following:

- 30012: LC OQ Gradient Standard, 1 mL
- 31053: LC OQ Wavelength Accuracy Standard, 5 mL
- 31068: LC OQ Linearity Kit, 6 - 1 mL/ampuls

cat.# 31069 (kit)

kit

No data pack available.