

HPLC OQ Linearity Test Mix Kit

Linear detector responses to concentration variations are an important part of operation qualification (OQ) for HPLC 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.

Caffeine at 5.0, 25.0, 125.0, 250.0, 500.0 $\mu\text{g/mL}$ in water in a five ampul kit.

1mL each of these mixtures.

cat. # 31805 (kit)

No data pack available.

also available

Individual ampuls of caffeine are available on [page 430](#).

Carbohydrate HPLC Performance Check Mix

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

glucose	2.0mg	maltose	4.5
fructose	2.1	sucrose	4.0
lactose	4.4		

Dry components in 4mL screw-cap vial.

Reconstitute in 1mL acetonitrile:water (75:25) to 2.0, 2.1, 4.4, 4.5, 4.0 mg/mL, respectively.

cat. # 31809 (ea.)

No data pack available.

HPLC Performance Test Mix

The National Institute of Standards and Technology (NIST) has formulated a mixture that is highly effective for characterizing HPLC 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		quinizarin	94
hydrochloride	2800 $\mu\text{g/mL}$	toluene	1400
ethylbenzene	1700	uracil	28

In methanol, 1mL/ampul

cat. # 31699 (ea.)

OQ Response Linearity Test Standard

<i>n</i> -heptadecane (C17)	1,000 $\mu\text{g/mL}$	<i>n</i> -eicosane (C20)	100
<i>n</i> -octadecane (C18)	10	<i>n</i> -docosane (C22)	1.5
<i>n</i> -nonadecane (C19)	2	<i>n</i> -tetracosane (C24)	10,000

In isooctane, 1mL/ampul

cat. # 33906 (ea.)

NPD Performance Evaluation Standard

azobenzene	6.5 $\mu\text{g/mL}$	<i>n</i> -octadecane	100
malathion	10		

In isooctane, 1mL/ampul

cat. # 33907 (ea.)

FID Performance Evaluation Standard

<i>n</i> -tetradecane (C14)		<i>n</i> -hexadecane (C16)	
<i>n</i> -pentadecane (C15)			

0.03 w/w% each in hexane, 1mL/ampul

cat. # 33908 (ea.)

OQ/PV Headspace Standard

1,2-dichlorobenzene	<i>tert</i> -butyl disulfide
nitrobenzene	

2,000 $\mu\text{g/mL}$ each in ethanol, 1mL/ampul

cat. # 33909 (ea.)

ECD Performance Evaluation Standard

aldrin	γ -BHC (lindane)
--------	-------------------------

0.33 pg/mL each in isooctane, 1mL/ampul

cat. # 32455 (ea.)

For Restek's complete line of column test mixes, visit our website at:
www.restek.com/testmixes

**for more info**

For ultimate inertness, ask our Technical Service chemists or your Restek representative about Siltek® deactivation.

For more information on Restek performance coatings, visit us on the web at:
www.restekcoatings.com

did you know?

We have more than 2,000 pure, characterized, neat compounds in our inventory! If you do not see the EXACT mixture you need listed on any of these pages, call us.

See [page 427](#) for our Custom Reference Materials Request Form.