



Care and Use Notes for Lux AMP Chiral Columns

This guide will help your Lux AMP column live a long and happy life. Please read this before using your Lux AMP column as chiral columns require extra care.

General Information

Shipping Solvent

85/15 Acetonitrile/Water (Reversed Phase)

Equilibration

Please equilibrate Lux AMP column with a minimum of 10 column volumes of mobile phase. A: 5 mM Ammonium Bicarbonate, adjusted to pH 11 with ammonium hydroxide, B: Methanol (40:60).

Test Certificate

Each column is individually tested before shipment. A test certificate showing the separation parameters for trans-stilbene oxide is enclosed with each column. A test certificate can also be found on our website using column part number and serial number.

Operating Backpressure

The mobile phase flow rate should be set such that the column backpressure stays below 310 bar (4500 psi).

Operating Temperatures

With standard co-solvent/modifier (such as alcohol and acetonitrile) the column can be used in the temperature range 0-50 °C.

Mobile Phase

Mobile Phase Restrictions

Lux AMP is a pH (1-11.5) stable chiral column. Like other Lux columns, any solvent dissolving the polysaccharide derivative (such as tetrahydrofuran, acetone, chlorinated hydrocarbons, ethylacetate, dimethylsulfoxide, dimethylformamide, N-methylformamide, toluene, methylethyl ketone and methyl tert-butyl ether, etc) must be avoided even in trace amounts (e.g. sample solvent).

Mobile Phase Additives

For the separation of substituted amphetamines we recommend using Ammonium Hydroxide (NH₄OH) to adjust pH.

Strategies for Successful Separation

<http://www.phenomenex.com/application/detail/23631>

Column Care, Maintenance, and Storage

Extending Lifetime and Removal of Contaminants

Phenomenex recommends the use of SecurityGuard™ ULTRA guard cartridges to extend the lifetime of your column. Ideally, samples must be completely dissolved in the mobile phase modifier and filtered through a syringe filter of approximately 0.45 µm porosity. To remove potential contaminants after extended use of your Lux column, we recommend flushing the column with 100 % methanol or with ethanol for 2-3 hours at the appropriate flow rate. Back flush can also be used to clean the column.

Column Storage

Columns used in high pH conditions should be flushed with 10 column volumes of 85/15 Acetonitrile/Water prior to long term storage. The column can be stored in 85/15 Acetonitrile/Water.

Trademarks

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