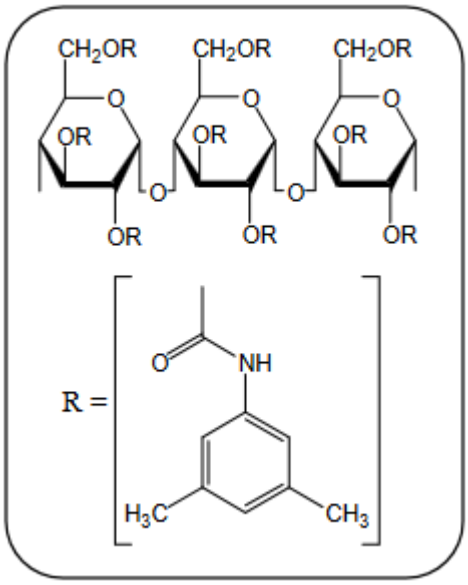
Product Information

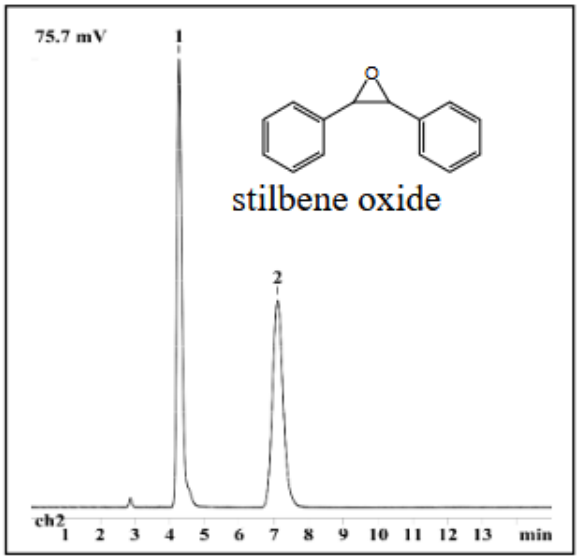
January 2025

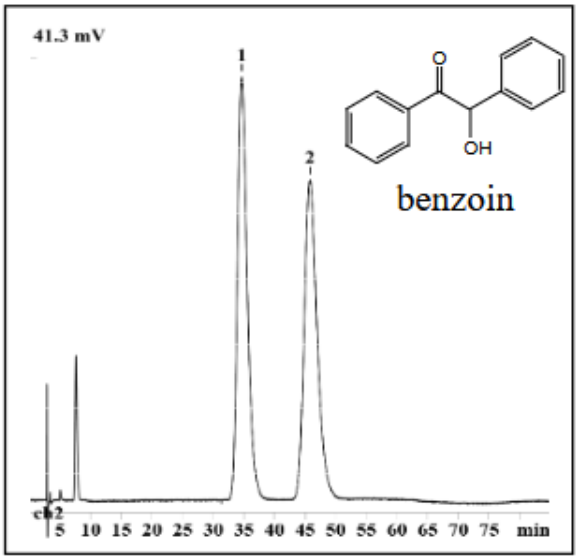
MultoHigh Chiral-AM



MultoHigh Chiral-AM is a highly versatile and efficient chiral stationary phase (CSP). It permits a vast number of chiral separations.
The chiral phase is based on high quality 1000 Å spherical silica and is coated with amylose-tris(3,5-dimethylphenylcarbamate) as well established and often used chiral selector.
This results in a CSP with:

- excellent enantio selectivity
- high mechanical and solvent stability
- good reproducibility
- high sample capacity





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Ordering information

	Dimension	P/N	Dimension	P/N
MultoHigh Chiral-AM-HR	150 x 4.6 mm	586112215	250 x 4.6 mm	5861222
MultoHigh Chiral-AM	150 x 4.6 mm	586112015	250 x 4.6 mm	5861220
MultoHigh Chiral-AM-HR-RP	150 x 4.6 mm	586112315	250 x 4.6 mm	5861223
MultoHigh Chiral-AM-RP	150 x 4.6 mm	586112115	250 x 4.6 mm	5861221
MultoHigh Chiral-AM (prep.)	250 x 10 mm	510112025	250 x 20 mm	5201120
MultoHigh Chiral-AM (Cartridge)	10 x 4 mm	558405-1120		

Instructions for use

MultoHigh Chiral-AM is a silica gel based chiral stationary phase (CSP) designed for analytical and preparative separation of enantiomers. To ensure maximum column endurance we recommend to consider the following notes:

- Use mixtures of non-polar hydrocarbons (hexane, heptane) and isopropanol or ethanol as mobile phases (normal phase mode).
- The retention time decreases with increasing alcohol ratio. The retention time reduces with usage of ethanol compared to isopropanol.
- The CSP is permanently stable with the following mobile phases:
    - methanol/ethanol (1:1): 0-15% or 60-100% in alkane
    - ethanol: 0-15% or 60-100% in alkane
    - isopropanol: 0-100% in alkane
    - acetonitrile: 0-100% in isopropanol, 0-15% in methanol or ethanol
    - acid: trifluoroacetic acid (TFA) ≤ 0.2%
    - base: triethylamine (TEA) or diethylamine (DEA) ≤ 0.2%
    - water content: < 5%
- As acids and bases may lead to a memory-effect we do not recommend the alternate usage of acidic and basic mobile phases on one column.
- When switching from alkane mixtures to polar mobile phases we recommend at least flushing the column with 10 column volumes of isopropanol before the polar mobile phase is used.
- Usage of other mobile phases may drastically reduce the CSP endurance or totally destruct the CSP. (e. g. an ethylacetate content > 10% damages the CSP)
- All samples should be filtered prior to the injection.
- Recommended flow: 1.0 ml/min (for a 250 x 4.6 mm column)
- Recommended operating temperature: 0 – 40 °C
- Recommended max. pressure: 75 bar
- Storage of the columns: First flush with hexane : isopropanol (1:1) then store in hexane : isopropanol (9:1).

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