

Ph.Eur. & USP - Lux Chiral Column Selection

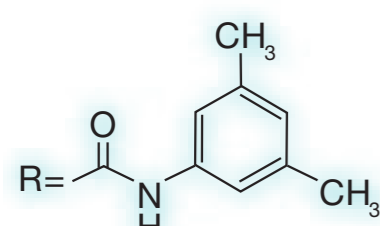


Chiral LC Columns



Lux Amylose-1

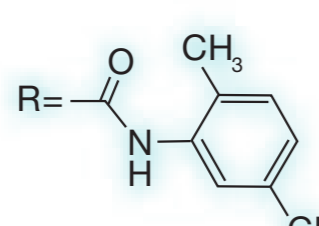
Amylose tris(3,5-dimethylphenyl-carbamate)



Amylose-O-R

Lux Amylose-2

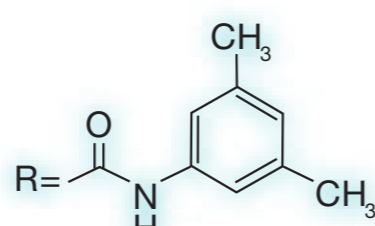
Amylose tris(5-chloro-2-methylphenyl-carbamate)



Amylose-O-R

Lux Cellulose-1

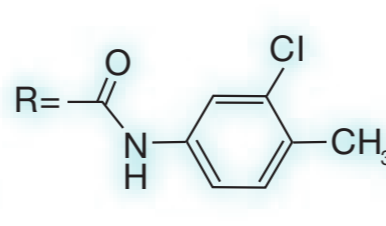
Cellulose tris(3,5-dimethylphenyl-carbamate)



Cellulose-O-R

Lux Cellulose-2

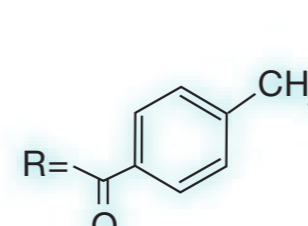
Cellulose tris(3-chloro-4-methylphenyl-carbamate)



Cellulose-O-R

Lux Cellulose-3

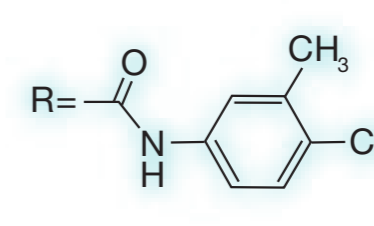
Cellulose tris(4-methylbenzoate)



Cellulose-O-R

Lux Cellulose-4

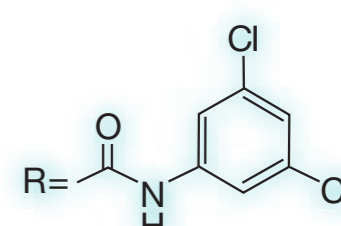
Cellulose tris(4-chloro-3-methylphenyl-carbamate)



Cellulose-O-R

Lux i-Cellulose-5

Cellulose tris(3,5-dichlorophenyl-carbamate)



Cellulose-O-R

Ph.Eur. (EP)

Description According to Pharm.Eur. 8 4.1.1. Reagents 2016	Number	Column
Silica gel AD for chiral separations	1171700	Lux Amylose-1
Silica gel for chiral separation, amylose derivative of coated with tris (3,5-dimethylphenylcarbamate)	1171700	Lux Amylose-1
Silica gel for chromatography, amylose derivative of.	1109800	Lux Amylose-1 Lux Amylose-2
Silica gel OD for chiral separations	1110300	Lux Cellulose-1
Silica gel for chiral separation, cellulose derivative of coated with tris (3,5-dimethylphenylcarbamate)	1110300	Lux Cellulose-1
Silica gel OJ for chiral separations coated with cellulose tris (4-methylbenzoate)	1179800	Lux Cellulose-3

USP

Column Classification	Description	Column
L40	Cellulose tris-3,5-dimethylphenylcarbamate coated porous silica particles, 5 µm to 20 µm in diameter.	Lux Cellulose-1
L51	Amylose tris-3,5-dimethylphenylcarbamate-coated, porous, spherical, silica particles, 5 to 10 µm in diameter.	Lux Amylose-1
L80	Cellulose tris(4-methylbenzoate)-coated, porous, spherical, silica particles, 5 µm in diameter.	Lux Cellulose-3
L93	Cellulose tris(3,5-dimethylphenylcarbamate) reversed phase chiral stationary phase coated on 3 or 5 µm silica gel particles	Lux Cellulose-1
L107	Cellulose tris(4-methylbenzoate)-coated porous spherical particles, 3 to 5 µm in diameter, for use with reversed phase mobile phases.	Lux Cellulose-3
L##*	(Lanatoprost) - Cellulose tris(3,5-dimethylphenylcarbamate) coated on 10 µm silica gel particles	Lux Cellulose-1
L##*	(Atomoxetine Hydrochloride) - Cellulose tris - (3,5-dichlorophenylcarbamate), immobilized on porous, spherical, silica particles, 3 to 5 µm in diameter	Lux i-Cellulose-5

* USP designation in process

Current Chiral Ph.Eur. Monograph Methods on Amylose/Cellulose Stationary Phases

Monograph	Ph.Eur. Supplement	Name	Test	Stationary Phase Description	Suitable column	Dimension	Column Part Number	Guard Part Number
2640	8.0	Atomoxetine hydrochloride	Isomeric purity	Cellulose derivative of silica gel for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1	250 x 4.6 mm	00G-4459-E0	AJ0-8403
2191	8.0	Atorvastatin calcium trihydrate	Enantiomeric purity	Amylose derivative of silica gel for chromatography R (10 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2191	Pharm Europa 26.2	Atorvastatin calcium trihydrate	Enantiomeric purity	Amylose derivative of silica gel for chromatography R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2763	8.7	Cisatracurium besilate	Diastereoisomers	Amylose derivative of silica gel for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2531	8.0	Clopidogrel hydrogen sulfate	Enantiomeric purity	Silica gel OJ for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-3*	250 x 4.6 mm	00G-4493-E0	AJ0-8622
1196	8.0	Dexchlorpheniramine maleate	Enantiomeric purity	Amylose derivative of silica gel for chromatography R (10 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1*	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2594	8.0	Duloxetine hydrochloride	Enantiomeric purity	Silica gel OD for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1	250 x 4.6 mm	00G-4459-E0	AJ0-8403
2443	8.6	Fulvestrant	Stereochemical purity	Amylose derivative of silica gel for chromatography R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2675	Pharm Europa 25.1	Irinotecan hydrochloride trihydrate	Enantiomeric purity	Cellulose derivative of silica gel for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1	250 x 4.6 mm	00G-4459-E0	AJ0-8403
2535	8.0	Levetiracetam	Enantiomeric purity	Silica gel OD for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1*	250 x 4.6 mm	00G-4459-E0	AJ0-8403
1535	8.0	Levodropropizine	Enantiomeric purity	Silica gel OD for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1*	250 x 4.6 mm	00G-4459-E0	AJ0-8403
2416	8.0	Pramipexole dihydrochloride monohydrate	Enantiomeric purity	Silica gel AD for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1*	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2631	8.4	Rosuvastatin calcium	Enantiomeric purity	Cellulose derivative of silica gel for chiral separation R (5 µm) - 150 x 4.6 mm	Lux 5 µm Cellulose-3	150 x 4.6 mm	00F-4493-E0	AJ0-8622
1260	8.2	Selegiline hydrochloride	Enantiomeric purity	Cellulose derivative of silica gel for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1*	250 x 4.6 mm	00G-4459-E0	AJ0-8403
1705	8.0	Sertraline hydrochloride	Enantiomeric purity	Silica gel AD for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2778	8.7	Sitagliptin phosphate monohydrate	Enantiomeric purity	Amylose derivative of silica gel for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2779	8.6	Solifenacin succinate	Isomeric purity	Amylose derivative of silica gel for chromatography R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2272	Pharm Europa 24.2	Tacalcitol monohydrate	Diastereoisomers	Silica gel AD for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1*	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2606	8.0	Tadalafil	Impurities A, B and C	Silica gel AD for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1*	250 x 4.6 mm	00G-4732-E0	AJ0-9336
2131	8.0	Tamsulosin hydrochloride	Enantiomeric purity	Silica gel AD for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Amylose-1	250 x 4.6 mm	00G-4732-E0	AJ0-9336
572	8.0	Timolol maleate	Enantiomeric purity	Cellulose derivative of silica gel for chiral separation R (5 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1	250 x 4.6 mm	00G-4459-E0	AJ0-8403
2423	8.0	Valsartan	Enantiomeric purity	Silica gel OD for chiral separation R (10 µm) - 250 x 4.6 mm	Lux 5 µm Cellulose-1*	250 x 4.6 mm	00G-4459-E0	AJ0-8403

* According to Ph.Eur. chapter 2.2.46 Chromatographic Separation Techniques - Adjustment of chromatographic conditions a reduction of 50% of the indicated particle size is permitted in isocratic elution

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guarantee

If Lux analytical columns (≤ 4.6 mm ID) do not provide at least an equivalent or better chiral separation as compared to a competing column of the same particle size, similar phase and dimensions, return the column with comparative data within 45 days for a FULL REFUND.

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