

Eşdeğer Kolon Tablosu'na İlişkin Açıklamalar

1. Muadil kolon sıralamasında The United States Pharmacopeia (USP) kurumunun "**Column Equivalency Application**" listesi esas alınmıştır. Bu liste ekte bulunmaktadır.
2. Kolon sıralamasına "**Column comparison function (F)**" – Kolon Karşılaştırma Fonksiyonu (F_s) esas teşkil etmiştir. Tabloya, benzer kolonlar için uygun kabul edilen sınır değer $F_s = 10$ 'a kadar olan kolonlar dahil edilmiştir. Fonksiyon formülü ve değerlerine ilişkin geniş açıklama "Teknik Kaynaklar" bölümünde *Kolonlar* başlığında bulunmaktadır.
3. Her Kolon için USP tarafından kategorize edilmiş "**L**" Faz Spesifikasyonları, karşılaştırmayı kolaylaştırmak için EMR HPLC Technologies Kolonları ve eşdeğer kolonlar için tabloda belirtilmiştir.
4. ChrometiSIL[®], % 99,999 saflık oranına sahip Silis jeli tabanlı kolon dolgu maddeleri, rakiplerinden farklı olarak kullanıcılara daha geniş bir analitik kullanım sahasını mümkün kılmak için, fazla sayıda modifikasyonlu faz içermektedir. Bundan dolayı ChrometiSIL[®] fazlarının diğer üreticilerin fazlarında her zaman bir eşdeğeri bulunmamaktadır. Örneğin sadece C18 fazı için ChrometiSIL[®] ürün ailesinde C18 ace-EPS, C18 H, C18 SH, C18 AQ ve C18 AQ PLUS; ChromPEARL ürün ailesinde ise _{sub2} TPP C18 ace-EPS ve _{sub2} NPP C18 ace-EPS fazları sunulmaktadır. Diğer üreticilerde bu fazlara karşılık olarak yalnızca alışılagelmiş "C18" fazı sunulmaktadır.

Kolonumuz	Faz	US-Pharmacopeia Sınıfı	Eşdeğer Kolonlar	Eşdeğer Üretici	US-Pharmacopeia Sınıfı	
1. ChrometiSIL 120-3-C30	C30	L62	Vision C18 B Alltima HP C18 EPS	Grace-Alltech Grace-Alltech	L1	
2. ChrometiSIL 120-5 C18 SH	C18	L1	SepaxGP-C18	Sepax	L1	
			Xterra MS C18	Waters		
			Acclaim 120 C18	Dionex		
			Cogent HPS C18	MicroSolv		
			ACE 5 C18	MacMod/ACT		
			Genesis C18 120A	Grace-Jones		
			Chromolith RP18e	Merck		
			TSKgel Super-ODS	TOSOH Bioscience		
			OmniSpher 5 C18	Varian		
			PRECISIONC18	MacMod/Higgins		
			Develosil ODS-UG-5	Nomura		
			Armor C18 3um	Analytical Sales & Service		
			Advantage Armor C18 120A	Analytical Sales & Service		
			Unison UK-C18	Imtakt		
			Hypersil Beta Basic-18	Thermo Scientific		
			TSKgel ODS-140HTP	TOSOH Bioscience		
			Alltima C18	Grace-Alltech		
			CAPCELL C18 M G	Shiseido		
			TSKgel Super-Octyl	TOSOH Bioscience		
			CAPCELL C18 SG120	Shiseido		
			Kromasil 100-5C18	Akzo Nobel		
			Nucleosil 100-5-C18 HD	Macherey Nagel		
			Discovery C18	Supelco		
			GROM-SIL 120 ODS-3 CP	Grace-Grom		
			SepaxHP-C18	Sepax		
			Develosil ODS-HG-5	Nomura		
			Wakosil II 5C18AR	SGE		
			COSMOSILAR-II	Nacalai Tesque		
			XBridge C18	Waters		
			Cadenza 5CL-C18	Imtakt /Silvertone Sciences		
			Inertsil WP300 C8	GL Science		L7
			Halo-C18	Advanced Materials Technology		L1
			Hypurity C18	Thermo Scientific		*
			Ascentis Express C18	Supelco		L7
			Acclaim 120 C8	Dionex		L1
			Denali (120A C18)	Grace/Ydac		L1
			Alltima HP C18	Grace/Ydac		L1
			Purospher STAR RP18e	Merck		L7
			PRECISIONC8	MacMod/Higgins		L1
			GROM-SIL 120 ODS-5 ST	Grace-Grom		L7
			Xterra MS C8	Waters		*
			Hichrom RPB	HiChrom		*
			TSKgel Octyl-80Ts	TOSOH Bioscience		L1
			Genesis AQ 120A	Grace-Jones		*
			Hypersil GOLD C8	Thermo Scientific		L7
			Genesis EC C8 120A	Grace-Jones		L62
			Develosil C30-UG-5	Nomura		L7
			Kromasil 100-5C8	Akzo Nobel		L1
			Zorbax Extend C18	Agilent		L7
			Restek Ultra C18	Restek		L1
Genesis C8 120A	Grace-Jones	L1				
Aqua C18	Phenomenex	L7				
CAPCELL C18 ACR	Shiseido	L1				
Alltima HP C8	Grace-Alltech	L7				
Discovery C8	Supelco	L1				
Inertsil WP300 C18	GL Science	L7				
Discovery BIO Wide pore C18	Supelco	L1				
Hypersil Beta Basic-8	Thermo Scientific	L7				
Polaris C18-Ether	Varian	L1				
ACE 300 C8	MacMod/ACT	L7				
Precision C8-PE	MacMod/Higgins	L1				
Atlantis dC18 b	Waters	L7				
Restek Ultra C8	Restek	*				
GraceSmart RP 18 5u	Grace-Alltech	*				
Vydac Everest	Grace/Ydac	*				
CAPCELL C18 UG120	Shiseido	L1				
Wakosil II 5C18HG	SGE	L1				
ACE C4	MacMod/ACT	L26				
TSKgel ODS-80Ts	TOSOH Bioscience	*				
YMC Basic	Waters	*				
LiChrospher 60 RP-Select B	Merck	L7				
Targa C18	Higgins	L1				
Zorbax Eclipse Plus C18	Agilent	*				
Hypurity C8	Thermo Scientific	L7				

ChrometisIL 120-5 C8 SH

3.

C8

L7

LiChrospher 60 RP-Select B	Merck	L7
Genesis AQ 120A	Grace-Jones	L1
Bondclone C18	Phenomenex	*
SepaxHP-C18	Sepax	*
Genesis C8 120A	Grace-Jones	L7
Nucleosil 100-5-C18 HD	Macherey Nagel	L1
Precision C8-PE	MacMod/Higgins	L7
TSKgel Super-Phenyl	TOSOH Bioscience	*
Aqua C18	Phenomenex	L1
GraceSmart RP 18 5u	Grace-Alltech	*
ACE C4	MacMod/ACT	L26
HxSil C8	Hamilton	L7
Advantage Armor C18 120A	Analytical Sales & Service	L1
PRECISIONC8	MacMod/Higgins	L7
Prevail C8	Grace-Alltech	*
Atlantis T3	Waters	*
Atlantis dC18 b	Waters	L1
ACE AQ	MacMod/ACT	*
Armor C18 3um	Analytical Sales & Service	L1
Betasil Phenyl-Hexyl	Thermo Scientific	*
Nucelosil 100-5-C8 HD	Macherey Nagel	L7
Inertsil WP300C8	GL Science	*
Curosil-PFP	Phenomenex	*
TSKgel ODS-80Ts QA	TOSOH Bioscience	*
Unison UK-C18	Imtakt	L1
Genesis EC C8 120A	Grace-Jones	L7
Targa C18	Higgins	L1
Nucleodur Sphinx RP	Macherey Nagel	*
YMC Basic	Waters	*
Cogent HPS C18	MicroSolv	L1
Alltima C18	Grace-Alltech	*
TSKgel Octyl-80Ts	TOSOH Bioscience	*
Genesis C4 EC 120A	Grace-Jones	L26
Zorbax Eclipse XDB-CN	Agilent	L10
ACE 5 CN-300	MacMod/ACT	L1
PRECISIONC18	MacMod/Higgins	L7
Zorbax Rx-C8	Agilent	L1
Precision C18-PE	MacMod/Higgins	L11
Zorbax XDB-Phenyl	Agilent	*
TSKgel ODS-80Ts	TOSOH Bioscience	L7
Zorbax StableBond 300A C8	Agilent	*
Discovery BIO Wide pore C5	Supelco	*
SepaxBio-C4	Sepax	L7
Zorbax StableBond 80A C8	Agilent	L62
Develosil C30-UG-5	Nomura	*
Hypersil GOLD C8	Thermo Scientific	L7
ACE 300 C8	MacMod/ACT	*
SepaxGP-Phenyl	Sepax	L7
Kromasil 100-5C8	Akzo Nobel	L1
Alltima HP C8	Grace-Alltech	L7
Develosil ODS-MG-5	Nomura	L7
Acclaim 120 C8	Dionex	L56
Polaris C8-Ether	Varian	L1
Zorbax StableBond 300A C3	Agilent	L1
CAPCELL C18 M G	Shiseido	L7
Partisil C8	Phenomenex	L1
Polaris C18-Ether	Varian	L11
Genesis C18 120A	Grace-Jones	L7
Xterra Phenyl	Waters	*
Discovery C8	Supelco	L26
Xterra MS C8	Waters	*
SepaxGP-C18	Sepax	L1
HyPurity C4	Thermo Scientific	L26
Alltima HP C18	Grace-Alltech	L1

4.	ChrometiSIL 120-5-C1	C1	L1	TSKgel Super-Phenyl	TOSOH Bioscience	*
				Prevail C8	Grace-Alltech	L7
				HxSil C8	Hamilton	*
				ACE AQ	MacMod/ACT	L56
				Zorbax StableBond 300A C3	Agilent	L1
				Bondclone C18	Phenomenex	*
				SepaxGP-Phenyl	Sepax	L7
				LiChrospher 60 RP-Select B	Merck	L11
				Zorbax XDB-Phenyl	Agilent	L10
				Zorbax Eclipse XDB-CN	Agilent	*
				Betasil Phenyl-Hexyl	Thermo Scientific	L7
				Precision C8-PE	MacMod/Higgins	*
				Zorbax Rx-C8	Agilent	L7
				Nucleodur Sphinx RP	Macherey Nagel	*
				Genesis C8 120A	Grace-Jones	L7
				Ultra PFP	Restek	*
				Genesis C4 EC 120A	Grace-Jones	L26
				ACE C4	MacMod/ACT	L7
				Zorbax StableBond 80A C8	Agilent	L1
				Genesis AQ 120A	Grace-Jones	*
				Atlantis T3	Waters	L7
				Partisil C8	Phenomenex	L1
				Atlantis dC18 b	Waters	*
				GraceSmart RP 18 5u	Grace-Alltech	*
				TSKgel ODS-80Ts QA	TOSOH Bioscience	*
				SepaxHP-C18	Sepax	L10
				ACE 5 CN-300	MacMod/ACT	L7
				Nucleosil 100-5-C8 HD	Macherey Nagel	*
				Luna Phenyl-Hexyl	Phenomenex	L1
				Aqua C18	Phenomenex	*
				Curosil-PFP	Phenomenex	*
				BetaMax Base	Thermo Scientific	L7
PRECISIONC8	MacMod/Higgins	L1				
Targa C18	Higgins	*				
Nucleosil 100-5-C18 HD	Macherey Nagel	L1				
Synergi Polar-RP	Phenomenex	*				
5.	ChrometiSIL 120-5-C18 ace-EPS	C18 ace-EPS	L1	Eşdeğer kolonu bulunmamaktadır		
6.	ChrometiSIL 120-5-C18 AQplus	C18 AQ+	L1	Gemini C18 110A	Phenomenex	L1
				Alltima C18-WP	Grace-Alltech	
7.	ChrometiSIL 120-5-C18 H	C18 H	L1	Genesis C18 120A	Grace-Jones	L1
				Genesis C18 120A	Grace-Jones	
				Xterra MS C18	Waters	
				ACE 5 C18	MacMod/ACT	*
				Armor C18 3um	Analytical Sales & Service	
				SepaxGP-C18	Sepax	L1
				Develosil ODS-UG-5	Nomura	
				Cogent HPS C18	MicroSolv	*
				Hypersil Beta Basic-18	Thermo Scientific	
				TSKgel Super-Octyl	TOSOH Bioscience	L1
				TSKgel Super-ODS	TOSOH Bioscience	
				PRECISIONC18	MacMod/Higgins	L1
				Nucleosil 100-5-C18 HD	Macherey Nagel	
				Chromolith RP18e	Merck	L1
				Advantage Armor C18 120A	Analytical Sales & Service	
				Unison UK-C18	Imtakt	L7
				Discovery C18	Supelco	
				Acclaim 120 C18	Dionex	L1
				XBridge C18	Waters	
				Inertsil WP300 C8	GL Science	L1
				Develosil ODS-HG-5	Nomura	
				Alltima C18	Grace-Alltech	*
Alltima HP C18	Grace-Alltech					
SepaxHP-C18	Sepax					

ChrometiSIL 120-5-C18 H

C18 H

L1

CAPCELL C18 M G	Shiseido	L1
PRECISIONC8	MacMod/Higgins	L7
Hypurity C18	Thermo Scientific	L1
Polaris C18-Ether	Varian	
Alltima HP C8	Grace-Alltech	L7
OmniSpher 5 C18	Varian	L1
ACE 300 C8	MacMod/ACT	L7
Hypersil GOLD C8	Thermo Scientific	*
Develosil C30-UG-5	Nomura	L62
GROM-SIL 120 ODS-3 CP	Grace-Grom	L1
Discovery C8	Supelco	L7
Acclaim 120 C8	Dionex	
TSKgel Octyl-80Ts	TOSOH Bioscience	*
Discovery BIO Wide pore C18	Supelco	L1
Hypersil Beta Basic-8	Thermo Scientific	L7
Inertsil WP300 C18	GL Science	L1
Genesis EC C8 120A	Grace-Jones	L7
CAPCELL C18 SG 120	Shiseido	L1
Hichrom RPB	HiChrom	*
Hypurity C8	Thermo Scientific	L7
Hypersil GOLD	Thermo Scientific	*
GROM-SIL 120 ODS-5 ST	Grace-Grom	L1
Genesis AQ 120A	Grace-Jones	
TSKgel ODS-140HTP	TOSOH Bioscience	*
Genesis C8 120A	Grace-Jones	L7
ACE C4	MacMod/ACT	L26
Zorbax Eclipse XDB-C18	Agilent	L1
Aqua C18	Phenomenex	
Kromasil 100-5C8	Akzo Nobel	L7
COSMOSILAR-II	Nacalai Tesque	*
Precision C8-PE	MacMod/Higgins	L7
YMC Basic	Waters	*
Denali (120A C18)	Grace/Vydac	L1
LiChrospher 60 RP-Select B	Merck	L7
HyPurity C4	Thermo Scientific	L26
Kromasil 100-5C18	Akzo Nobel	L1
Xterra MS C8	Waters	L7
SepaxBio-C4	Sepax	*
SepaxBio-C8	Sepax	
GraceSmart RP 18 5u	Grace-Alltech	
ACE 5 C4-300	MacMod/ACT	L26
Cadenza 5CL-C18	Imtakt/Silvertone Sciences	L1
Nucelosil 100-5-C8 HD	Macherey Nagel	L7
Restek Ultra C8	Restek	
Atlantis dC18 b	Waters	L1
BioBasic-4	Thermo Scientific	*
Symmetry 300 C18	Waters	L1
Wakosil II 5C18AR	SGE	
Chromegabond WR C8	ES Industries	L7
Vydac Everest	Grace/Vydac	
Atlantis T3	Waters	*
Jupiter300 C5	Phenomenex	
Discovery BIO Wide pore C5	Supelco	
Discovery BIO Wide pore C8	Supelco	L7
Targa C18	Higgins	L1
DeltaPak C18 300A	Waters	
TSKgel ODS-80Ts	TOSOH Bioscience	*
CAPCELL C18 ACR	Shiseido	L1
SepaxBioC18	Sepax	*

ChrometiSIL 120-5-C18-AQ

C18 AQ

L1

Armor C18 3um	Analytical Sales & Service	
Genesis C18 120A	Grace-Jones	
Cogent HPS C18	MicroSolv	
Xterra MS C18	Waters	
ACE 5 C18	MacMod/ACT	
Alltima HP C18	Grace-Alltech	L1
Develosil ODS-UG-5	Nomura	
Polaris C18-Ether	Varian	
Unison UK-C18	Imtakt	
Nucleosil 100-5-C18 HD	Macherey Nagel	
Hypersil Beta Basic-18	Thermo Scientific	
SepaxGP-C18	Sepax	*
Discovery C18	Supelco	L1
ACE 300 C8	MacMod/ACT	L7
Develosil C30-UG-5	Nomura	L62
Inertsil WP300 C8	GL Science	L7
XBridge C18	Waters	L1
Advantage Armor C18 120A	Analytical Sales & Service	
TSKgel Super-ODS	TOSOH Bioscience	*
TSKgel Super-Octyl	TOSOH Bioscience	*
PRECISIONC18	MacMod/Higgins	L1
Alltima HP C8	Grace-Alltech	L7
Inertsil WP300 C18	GL Science	
Hypurity C18	Thermo Scientific	L1
Develosil ODS-HG-5	Nomura	
Alltima C18	Grace-Alltech	
PRECISIONC8	MacMod/Higgins	L7
Hypersil GOLD	Thermo Scientific	*
Chromolith RP18e	Merck	L1
SepaxHP-C18	Sepax	*
Hypersil GOLD C8	Thermo Scientific	*
CAPCELL C18 M G	Shiseido	L1
Hypurity C8	Thermo Scientific	L7
LiChrospher 60 RP-Select B	Merck	
GROM-SIL 120 ODS-5 ST	Grace-Grom	L1
Discovery C8	Supelco	L7
Hichrom RPB	HiChrom	*
GROM-SIL 120 ODS-3 CP	Grace-Grom	
Acclaim 120 C18	Dionex	L1
Discovery BIO Wide pore C18	Supelco	
ACE C4	MacMod/ACT	L26
TSKgel Octyl-80Ts	TOSOH Bioscience	*
Aqua C18	Phenomenex	L1
Hypersil Beta Basic-8	Thermo Scientific	L7
ACE 5 C4-300	MacMod/ACT	L26
Genesis AQ 120A	Grace-Jones	L1
Genesis C8 120A	Grace-Jones	
Acclaim 120 C8	Dionex	L7
Genesis EC C8 120A	Grace-Jones	
SepaxBio-C8	Sepax	*
CAPCELL C18 SG120	Shiseido	L1
BioBasic-4	Thermo Scientific	*
OmniSpher 5 C18	Varian	L1
GraceSmart RP 18 5u	Grace-Alltech	*
HyPurity C4	Thermo Scientific	L26
Precision C8-PE	MacMod/Higgins	L7
COSMOSILAR-II	Nacalai Tesque	
SepaxBio-C4	Sepax	*
YMC Basic	Waters	
Denali (120A C18)	Grace/Vydac	L1
DeltaPak C18 300A	Waters	
SepaxBioC18	Sepax	*
Symmetry 300 C18	Waters	L1
Kromasil 100-5C8	Akzo Nobel	L7
Cadenza 5CL-C18	Imtakt/Silvertone Sciences	L1
Discovery BIO Wide pore C8	Supelco	
Nucleosil 100-5-C8 HD	Macherey Nagel	L7
Chromegabond WR C8	ES Industries	
Hichrom 300 5 RPB	HiChrom	*
Zorbax Eclipse XDB-C18	Agilent	L1
TSKgel ODS-140HTP	TOSOH Bioscience	*
Bondclone C18	Phenomenex	
Atlantis dC18 b	Waters	L1
Pursuit C18	Varian	
Xterra MS C8	Waters	L7
Discovery BIO Wide pore C5	Supelco	*
Polaris C18-A	Varian	L1
Atlantis T3	Waters	*
Curosil-PFP	Phenomenex	
Jupiter300C18	Phenomenex	
Kromasil 100-5C18	Akzo Nobel	L1

9.	ChrometiSIL 120-5-C8 ace-EPS	C8 ace-EPS	L7	Eşdeğer kolonu bulunmamaktadır		
10.	ChrometiSIL 120-5-CN EC	CN EC	L10	BetaMax Base	Thermo Scientific	*
				BetaBasic CN	Thermo Scientific	L10
				Genesis C4 EC 120A	Grace-Jones	L26
				Betasil Phenyl-Hexyl	Thermo Scientific	*
				SepaxHP-Cyano	Sepax	*
				Zorbax Eclipse XDB-CN	Agilent	L10
				Nucleodur Sphinx RP	Macherey Nagel	*
				Hypurity Cyano	Thermo Scientific	L10
				SepaxGP-C4	Sepax	*
				Ultra PFP	Restek	*
				Kromasil 100-5C4	Akzo Nobel	L26
				Discovery BIO Wide pore C5	Supelco	*
				SepaxGP-Phenyl	Sepax	*
				Atlantis dC18 b	Waters	L1
				ACE AQ	MacMod/ACT	*
				Precision C8-PE	MacMod/Higgins	L7
				Atlantis T3	Waters	*
				Luna Phenyl-Hexyl	Phenomenex	*
				Polaris C8-Ether	Varian	L7
				YMC Basic	Waters	*
				Xterra MS C8	Waters	L7
				ACE C4	MacMod/ACT	L26
				Nucelosil 100-5-C8 HD	Macherey Nagel	L7
				Symmetry 300 C4	Waters	L26
				SepaxBio-C4	Sepax	*
				Develosil ODS-MG-5	Nomura	L1
				Zorbax XDB-Phenyl	Agilent	L11
				Genesis AQ 120A	Grace-Jones	L1
				TSKgel Octyl-80Ts	TOSOH Bioscience	*
				TSKgel ODS-80Ts QA	TOSOH Bioscience	*
				Precision CN	MacMod/Higgins	L10
				TSKgel Super-Phenyl	TOSOH Bioscience	*
				Kromasil 100-5C8	Akzo Nobel	L7
				Xterra Phenyl	Waters	L11
				Zorbax StableBond 300A C3	Agilent	L56
				Acclaim 120 C8	Dionex	L7
				Curosil-PFP	Phenomenex	*
				PRECISIONC8	MacMod/Higgins	L7
				Genesis EC C8 120A	Grace-Jones	*
				TSKgelODS-100V	TOSOH Bioscience	*
				Genesis C8 120A	Grace-Jones	L7
Bondclone C18	Phenomenex	L1				
11.	ChrometiSIL 120-5-Phenyl	Phenyl	L11	ACE Phenyl	MacMod/ACT	L11
				ACE Phenyl-300	MacMod/ACT	*
				Inertsil Ph-3	GL Science	*
				Genesis Phenyl	Grace-Jones	L11
				Precision Phenyl	MacMod/Higgins	*
				Bidentate C8	Microsolve	*
				ACE 5 CN-300	MacMod/ACT	L10
				TSKgel Super-Phenyl	TOSOH Bioscience	*
				BetaBasic Phenyl	Thermo Scientific	L11
				Prodigy Phenyl-3	Phenomenex	L56
XBridge Phenyl	Waters	L11				
Zorbax XDB-Phenyl	Agilent	L11				
12.	ChrometiSIL 200-5 C8 SH	C8 SH	L7	Inertsil WP300 C8	GL Science	L7
				PRECISIONC8	MacMod/Higgins	*
				ACE C4	MacMod/ACT	L26
				SepaxBio-C4	Sepax	*
				ACE 300 C8	MacMod/ACT	L7
				HyPurity C4	Thermo Scientific	L26
				SepaxBio-C8	Sepax	*
				Discovery C8	Supelco	L7
				TSKgel Octyl-80Ts	TOSOH Bioscience	*
				ACE 5 C4-300	MacMod/ACT	L26
				Develosil C30-UG-5	Nomura	L62
				Discovery BIO Wide pore C18	Supelco	L1
				Discovery BIO Wide pore C5	Supelco	*
				Alltima HP C8	Grace-Alltech	L7
				Polaris C18-Ether	Varian	L1
				Hypersil Beta Basic-8	Thermo Scientific	L7
				Hypurity C8	Thermo Scientific	*
				Nucelosil 100-5-C18 HD	Macherey Nagel	L1
				Polaris C8-Ether	Varian	L7
				YMC Basic	Waters	*
				Hypersil GOLD C8	Thermo Scientific	*
				Acclaim 120 C8	Dionex	L7
				BioBasic-4	Thermo Scientific	*
Armor C18 3um	Analytical Sales & Service	L1				
Genesis EC C8 120A	Grace-Jones	L7				
Bondclone C18	Phenomenex	L1				

12.	ChrometiSIL 200-5 C8 SH	C8 SH	L7	Precision C8-PE	MacMod/Higgins	L7				
				LiChrospher 60 RP-Select B	Merck	*				
				TSKgel Super-Octyl	TOSOH Bioscience	L10				
				ACE 5 CN-300	MacMod/ACT	L1				
				Genesis AQ 120A	Grace-Jones	*				
				SepaxHP-C18	Sepax	L7				
				Genesis C8 120A	Grace-Jones	L1				
				Polaris C18-A	Varian	*				
				Curosil-PFP	Phenomenex	L7				
				Nucelosil 100-5-C8 HD	Macherey Nagel	*				
				Hypersil GOLD	Thermo Scientific	*				
				Betasil Phenyl-Hexyl	Thermo Scientific	L1				
				Advantage Armor C18 120A	Analytical Sales & Service	L7				
				Kromasil 100-5C8	Akzo Nobel	L1				
				Genesis C18 120A	Grace-Jones	L26				
				Genesis C4 300A	Grace-Jones	L1				
				Alltima HP C18	Grace-Alltech	*				
				Jupiter300C5	Phenomenex	L26				
				Genesis C4 EC 120A	Grace-Jones	L1				
				Xterra MS C18	Waters	L26				
				Develosil ODS-UG-5	Nomura	L1				
				Symmetry 300 C4	Waters	L26				
				Cogent HPS C18	MicroSolv	L1				
				Inertsil WP300C18	GL Science	L26				
				Jupiter300C4	Phenomenex	L1				
				Discovery C18	Supelco	L7				
				Xterra MS C8	Waters	L1				
				ACE 5 C18	MacMod/ACT	L7				
				Discovery BIO Wide pore C8	Supelco	L1				
				Atlantis dC18 b	Waters	L11				
				Xterra Phenyl	Waters	L1				
				XBridge C18	Waters	L10				
				Zorbax Eclipse XDB-CN	Agilent	L1				
				Develosil ODS-HG-5	Nomura	L7				
				Hypersil Beta Basic-18	Thermo Scientific	*				
				Chromegabond WVR C8	ES Industries	L1				
				SepaxGP-C18	Sepax	*				
				Unison UK-C18	Imtakt	L1				
				Atlantis T3	Waters	*				
				PRECISIONC18	MacMod/Higgins	L1				
				SepaxBioC18	Sepax	*				
				ACE Phenyl-300	MacMod/ACT	L11				
				Aqua C18	Phenomenex	L1				
				Restek Ultra C8	Restek	L7				
				Hypurity C18	Thermo Scientific	L1				
				XBridge Phenyl	Waters	L56				
				Zorbax StableBond 300A C8	Agilent	L7				
				TSKgel Super-Phenyl	TOSOH Bioscience	*				
				Alltima C18	Grace-Alltech	L1				
				Hypersil Bio Basic-8	Thermo Scientific	L7				
				GraceSmart RP 18 5u	Grace-Alltech	*				
				Acclaim 120 C18	Dionex	L1				
				DeltaPak C18 300A	Waters					
				13.	ChrometiSIL 200-5-C18 ace-EPS	C18 ace-EPS	L1	Eşdeğer kolonu bulunmamaktadır		
				14.	ChrometiSIL 200-5-C18 AQ	C18 AQ	L1	Armor C18 3um	Analytical Sales & Service	L1
								Genesis C18 120A	Grace-Jones	
								Cogent HPS C18	MicroSolv	
								Unison UK-C18	Imtakt	
								Nucleosil 100-5-C18 HD	Macherey Nagel	
								Advantage Armor C18 120A	Analytical Sales & Service	
Alltima HP C18	Grace-Alltech									
Xterra MS C18	Waters									
ACE 5 C18	MacMod/ACT									
PRECISIONC18	MacMod/Higgins									
Alltima C18	Grace-Alltech									
Polaris C18-Ether	Varian									
SepaxGP-C18	Sepax	*								
ACE 300 C8	MacMod/ACT	L7								
SepaxHP-C18	Sepax	*								
Develosil ODS-UG-5	Nomura	L1								
Alltima HP C8	Grace-Alltech	L7								
Inertsil WP300 C8	GL Science									
PRECISIONC8	MacMod/Higgins									
CAPCELL C18 M G	Shiseido	L1								
Chromolith RP18e	Merck									
Hypersil Beta Basic-18	Thermo Scientific	L62								
Develosil C30-UG-5	Nomura									
Hypersil GOLD	Thermo Scientific									
TSKgel Super-Octyl	TOSOH Bioscience	*								
Aqua C18	Phenomenex	L1								
LiChrospher 60 RP-Select B	Merck	L7								

14.

ChrometiSIL 200-5-C18 AQ

C18 AQ

L1

TSKgel Super-ODS	TOSOH Bioscience	*
XBridgeC18	Waters	
GROM-SIL 120 ODS-3 CP	Grace-Grom	L1
Discovery C18	Supelco	
GROM-SIL 120 ODS-5 ST	Grace-Grom	
Hypersil GOLD C8	Thermo Scientific	*
Genesis C8 120A	Grace-Jones	L7
GraceSmart RP 18 5u	Grace-Alltech	*
Hichrom RPB	HiChrom	
ACE C4	MacMod/ACT	L26
Genesis AQ 120A	Grace-Jones	
Inertsil WP300 C18	GL Science	L1
Hypurity C18	Thermo Scientific	
Genesis EC C8 120A	Grace-Jones	L7
Acclaim 120 C18	Dionex	L1
Discovery C8	Supelco	L7
Develosil ODS-HG-5	Nomura	L1
TSKgel Octyl-80Ts	TOSOH Bioscience	*
Hypurity C8	Thermo Scientific	L7
Discovery BIO Wide pore C18	Supelco	L1
Precision C8-PE	MacMod/Higgins	L7
CAPCELL C18 SG120	Shiseido	L1
Hypersil Beta Basic-8	Thermo Scientific	L7
Acclaim 120 C8	Dionex	
ACE 5 C4-300	MacMod/ACT	L26
COSMOSILAR-II	Nacalai Tesque	*
YMC Basic	Waters	*
OmniSpher 5 C18	Varian	L1
SepaxBio-C8	Sepax	*
Kromasil 100-5C8	Akzo Nobel	L7
Nucelosil 100-5-C8 HD	Macherey Nagel	
Denali (120A C18)	Grace/Vydac	L1
BioBasic-4	Thermo Scientific	*
HyPurity C4	Thermo Scientific	L26
SepaxBio-C4	Sepax	*
Bondclone C18	Phenomenex	
Atlantis dC18 b	Waters	L1
Zorbax Eclipse XDB-C18	Agilent	
Cadenza 5CL-C18	Imtakt /Silvertone Sciences	
Atlantis T3	Waters	*
SepaxBioC18	Sepax	*
DeltaPak C18 300A	Waters	L1
Targa C18	Higgins	
Vydac Everest	Grace/Vydac	*
Xterra MS C8	Waters	L7
Discovery BIO Wide pore C5	Supelco	*
Symmetry 300 C18	Waters	L1
Kromasil 100-5C18	Akzo Nobel	
Restek Ultra C8	Restek	L7
Onyx Monolithic C18	Phenomenex	L1
Polaris C18-A	Varian	
Hichrom 300 5 RPB	HiChrom	*
Discovery BIO Wide pore C8	Supelco	L7
TSKgel ODS-80Ts	TOSOH Bioscience	*
Zorbax StableBond 80A C18	Agilent	L1

15.

ChrometiSIL 200-5-C18 H

C18 H

L1

Polaris C18-Ether	Varian	L1
XBridgeC18	Waters	
ACE 300 C8	MacMod/ACT	L7
Discovery C18	Supelco	
Alltima HP C18	Grace-Alltech	L1
Hypersil Beta Basic-18	Thermo Scientific	
Develosil ODS-UG-5	Nomura	
Hypurity C18	Thermo Scientific	
Hypurity C8	Thermo Scientific	L7
Inertsil WP300 C18	GL Science	L1
Genesis C18 120A	Grace-Jones	
Develosil C30-UG-5	Nomura	L62
Hypersil GOLD	Thermo Scientific	*
Develosil ODS-HG-5	Nomura	
Armor C18 3um	Analytical Sales & Service	L1
ACE 5 C18	MacMod/ACT	
Alltima HP C8	Grace-Alltech	L7
Inertsil WP300 C8	GL Science	
ACE 5 C4-300	MacMod/ACT	L26
BioBasic-4	Thermo Scientific	*
TSKgel Super-Octyl	TOSOH Bioscience	*
Xterra MS C18	Waters	L1
Discovery C8	Supelco	L7
SepaxBio-C8	Sepax	*
Discovery BIO Wide pore C8	Supelco	L7
Discovery BIO Wide pore C18	Supelco	L1
SepaxBioC18	Sepax	*
DeltaPak C18 300A	Waters	L1
PRECISIONC8	MacMod/Higgins	
TSKgel Super-ODS	TOSOH Bioscience	L7
Chromegabond WR C8	ES Industries	

15.	ChrometiSIL 200-5-C18 H	C18 H	L1	Hypersil Beta Basic-8	Thermo Scientific	L1				
				Nucleosil 100-5-C18 HD	Macherey Nagel	*				
				Hypersil GOLD C8	Thermo Scientific	*				
				Cogent HPS C18	MicroSolv					
				Symmetry 300 C18	Waters	L1				
				Pursuit C18	Varian					
				HyPurity C4	Thermo Scientific	L26				
				Hypersil Bio Basic-8	Thermo Scientific	L7				
				SepaxGP-C18	Sepax	*				
				Polaris C18-A	Varian					
				Unison UK-C18	Imtakt	L1				
				Jupiter300C18	Phenomenex					
				TSKgel Octyl-80Ts	TOSOH Bioscience	*				
				ACE C4	MacMod/ACT	L26				
				Hichrom RPB	HiChrom					
				Hichrom 300 5 RPB	HiChrom	*				
				SepaxBio-C4	Sepax					
				Advantage Armor C18 120A	Analytical Sales & Service	L1				
				Acclaim 120 C8	Dionex	L7				
				Hypersil Bio Basic-18	Thermo Scientific					
				Chromolith RP18e	Merck	L1				
				PRECISIONC18	MacMod/Higgins					
				LiChrospher 60 RP-Select B	Merck	L7				
				SepaxHP-C18	Sepax	*				
				Acclaim300C18	Dionex	L1				
				Genesis EC C8 120A	Grace-Jones	L7				
				Discovery BIO Wide pore C5	Supelco	*				
				Genesis AQ 120A	Grace-Jones					
				OmniSpher 5 C18	Varian	L1				
				Polaris C8-Ether	Varian					
				Kromasil 100-5C8	Akzo Nobel	L7				
				Aqua C18	Phenomenex					
				CAPCELL C18 SG120	Shiseido	L1				
				Precision C8-PE	MacMod/Higgins	L7				
				TSKgel ODS-140HTP	TOSOH Bioscience	*				
				Denali (120A C18)	Grace/Vydac	L1				
				Jupiter300C4	Phenomenex	L26				
				ACE 5 CN-300	MacMod/ACT	L10				
				Bondclone C18	Phenomenex	L1				
				Acquity UPLC BEH C8	Waters	*				
				ACE 5 C18-300	MacMod/ACT	L1				
				16.	ChrometiSIL 200-5-C30	C30	L62	SynChropak RPP	Eprogen	*
								HxSil C18	Hamilton	
								Platinum EPS C18 300	Grace-Alltech	L1
				17.	ChrometiSIL 200-5-C4	C4	L26	Genesis C4 EC 120A	Grace-Jones	L26
								Betasil Phenyl-Hexyl	Thermo Scientific	*
								Bondclone C18	Phenomenex	L1
ACE C4	MacMod/ACT	L26								
Polaris C8-Ether	Varian	L7								
Discovery BIO Wide pore C5	Supelco	*								
TSKgel Super-Phenyl	TOSOH Bioscience	*								
Zorbax Eclipse XDB-CN	Agilent	L10								
ACE 5 CN-300	MacMod/ACT	L10								
SepaxBio-C4	Sepax	*								
SepaxGP-Phenyl	Sepax	*								
Zorbax StableBond 300A C3	Agilent	L56								
PRECISIONC8	MacMod/Higgins	L7								
YMC Basic	Waters	*								
Precision C8-PE	MacMod/Higgins	L7								
Genesis C4 300A	Grace-Jones	L26								
Curosil-PFP	Phenomenex	*								
Inertsil WP300C8	GL Science	L7								
Zorbax XDB-Phenyl	Agilent	L11								
TSKgel Octyl-80Ts	TOSOH Bioscience	*								
HyPurity C4	Thermo Scientific	L26								
LiChrospher 60 RP-Select B	Merck	L7								
ACE AQ	MacMod/ACT	*								
ACE Phenyl-300	MacMod/ACT	L11								
Nucleosil 100-5-C8 HD	Macherey Nagel	L7								
Genesis AQ 120A	Grace-Jones	L1								
Precision Phenyl	MacMod/Higgins	L11								
Partisil C8	Phenomenex	L7								
Xterra Phenyl	Waters	L11								
Genesis C8 120A	Grace-Jones	L7								
Prevail C8	Grace-Alltech	L7								
Nucleosil 100-5-C18 HD	Macherey Nagel	L1								
SepaxBio-C8	Sepax	*								
Nucleodur Sphinx RP	Macherey Nagel	*								
Genesis EC C8 120A	Grace-Jones	L7								
ACE 5 C4-300	MacMod/ACT	L26								
Symmetry 300 C4	Waters	L26								
Atlantis T3	Waters	*								
Discovery C8	Supelco	L7								

17.	ChrometiSIL 200-5-C4	C4	L26	Acclaim 120 C8	Dionex	L7
				Atlantis dC18 b	Waters	L1
				BetaMax Base	Thermo Scientific	*
				Hypersil GOLD C8	Thermo Scientific	*
				Zorbax StableBond 300A C8	Agilent	L7
				ACE Phenyl	MacMod/ACT	L11
				ACE 300 C8	MacMod/ACT	L7
				Hypersil Beta Basic-8	Thermo Scientific	L7
				SepaxHP-C18	Sepax	*
				Discovery BIO Wide pore C18	Supelco	L1
				Alltima HP C8	Grace-Alltech	L7
				Develosil C30-UG-5	Nomura	L62
				Kromasil 100-5C8	Akzo Nobel	L7
				HxSil C8	Hamilton	L7
				Genesis Phenyl	Grace-Jones	L11
				XBridge Phenyl	Waters	L56
18.	ChrometiSIL 300-5 C8 SH	C8 SH	L7	ACE 5 C4-300	MacMod/ACT	L26
				Polaris C18-Ether	Varian	L1
				ACE 300 C8	MacMod/ACT	L7
				Develosil C30-UG-5	Nomura	L62
				BioBasic-4	Thermo Scientific	*
				SepaxBio-C8	Sepax	*
				ACE 5 CN-300	MacMod/ACT	L10
				Inertsil WP300 C8	GL Science	L7
				Hypurity C8	Thermo Scientific	
				Alltima HP C18	Grace-Alltech	L1
				Hypersil GOLD	Thermo Scientific	*
				LiChrospher 60 RP-Select B	Merck	
				Alltima HP C8	Grace-Alltech	L7
				PRECISIONC8	MacMod/Higgins	
				ACE C4	MacMod/ACT	L26
				Inertsil WP300 C18	GL Science	L1
				Armor C18 3um	Analytical Sales & Service	
				SepaxBioC18	Sepax	*
				Zorbax StableBond 300A C8	Agilent	L7
				SepaxBio-C4	Sepax	*
				Discovery C8	Supelco	L7
				HyPurity C4	Thermo Scientific	L26
				Nucleosil 100-5-C18 HD	Macherey Nagel	
				Bondclone C18	Phenomenex	L1
				Discovery BIO Wide pore C18	Supelco	
				ACE Phenyl-300	MacMod/ACT	L11
				Polaris C18-A	Varian	L1
				TSKgel Octyl-80Ts	TOSOH Bioscience	*
				Hypersil Beta Basic-8	Thermo Scientific	
				Polaris C8-Ether	Varian	L7
				DeltaPak C18 300A	Waters	
				Hypersil GOLD C8	Thermo Scientific	*
				Genesis C18 120A	Grace-Jones	L1
				Curosil-PFP	Phenomenex	*
				Discovery BIO Wide pore C8	Supelco	L7
				Discovery BIO Wide pore C5	Supelco	*
				XBridge Phenyl	Waters	L56
				Discovery C18	Supelco	
				XBridge C18	Waters	L1
				TSKgel Super-Octyl	TOSOH Bioscience	*
				Genesis C4 300A	Grace-Jones	L26
				YMC Basic	Waters	*
				Develosil ODS-HG-5	Nomura	
				Develosil ODS-UG-5	Nomura	L1
				SepaxHP-C18	Sepax	*
				Hypurity C18	Thermo Scientific	L1
				Hypersil Bio Basic-8	Thermo Scientific	L7
				Cogent HPS C18	MicroSolv	
				Unison UK-C18	Imtakt	L1
				Xterra MS C18	Waters	
				Chromegabond WR C8	ES Industries	
				Acclaim 120 C8	Dionex	L7
				Hypersil Beta Basic-18	Thermo Scientific	
Genesis AQ 120A	Grace-Jones	L1				
Advantage Armor C18 120A	Analytical Sales & Service					
Genesis C8 120A	Grace-Jones					
Genesis EC C8 120A	Grace-Jones	L7				
Precision C8-PE	MacMod/Higgins					
ACE 5 C18	MacMod/ACT	L1				
TSKgel Super-Phenyl	TOSOH Bioscience	*				
Platinum C8	Grace-Alltech	L7				
Acclaim300C18	Dionex	L1				
Pursuit C18	Varian					
Xterra Phenyl	Waters	L11				
Prevail C8	Grace-Alltech	L7				
Aqua C18	Phenomenex	L1				
Bidentate C8	Microsolve	*				
Betasil Phenyl-Hexyl	Thermo Scientific					
Genesis C4 EC 120A	Grace-Jones	L26				
Nucleosil 100-5-C8 HD	Macherey Nagel	L7				

19.	ChrometiSIL 300-5-C18 H	C18 H	L1	DeltaPak C18 300A	Waters	L1	
				SepaxBioC18	Sepax	*	
				Genesis C18 300A	Grace-Jones	L1	
				Pursuit C18	Varian		
				Acclaim300 C18	Dionex		
				Inertsil WP300 C18	GL Science		
				Hypersil Bio Basic-18	Thermo Scientific		
				Symmetry 300 C18	Waters		
				Vision C18 HL	Grace-Alltech		
				Alltima HP C18	Grace-Alltech		
				Brava BDS C18	Grace-Alltech		
				Hypurity C18	Thermo Scientific		
				Hypersil Bio Basic-8	Thermo Scientific		L7
				Hichrom 300 5 RPB	HiChrom		*
				ACE 5 C18-300	MacMod/ACT	L1	
				Jupiter300C18	Phenomenex		
				Polaris C18-Ether	Varian	L7	
				Discovery BIO Wide pore C8	Supelco		
				XBridge C18	Waters	L1	
				Develosil ODS-HG-5	Nomura	*	
				BioBasic-4	Thermo Scientific	L1	
				Discovery C18	Supelco		
				Zorbax StableBond 300A C18	Agilent	L26	
				Prospere 300 C4	Grace-Alltech		
				Hypersil GOLD	Thermo Scientific	*	
				Chromegabond WR C8	ES Industries	L7	
				Develosil C30-UG-5	Nomura	L62	
				Platinum C8	Grace-Alltech	L7	
				Hypersil Beta Basic-18	Thermo Scientific	L1	
				MicroBondapak C18	Waters		
				ACE 5 C4-300	MacMod/ACT	L26	
				Selectosil C18	Phenomenex	L1	
				Acquity UPLC BEH C8	Waters	*	
				Hypersil ODS-2	Thermo Scientific	L1	
				ACE 300 C8	MacMod/ACT	L7	
				Chromegabond WR C18	ES Industries	L1	
				Hypurity C8	Thermo Scientific	L7	
				SepaxBio-C8	Sepax	*	
				Develosil ODS-UG-5	Nomura	L1	
				Genesis C18 120A	Grace-Jones		
Hypersil BDS C18	Thermo Scientific						
ACE 5 C18	MacMod/ACT						
TSKgel Super-ODS	TOSOH Bioscience	*					
Armor C18 3um	Analytical Sales & Service	L1					
Partisil ODS(3)	Phenomenex						
20.	ChrometiSIL 300-55-C18 ace-EPS	C18 ace-EPS	L1	Discovery Amide C16	Supelco	*	
21.	ChrometiSIL 60-5 C8 SH	C8 SH	L7	Alltima HP C18 High Load	Grace-Alltech	L1	
				Luna C18	Phenomenex		
				Ultrasorb ODS (30)	Phenomenex	*	
				J'Sphere M80	Waters		
				Synergi Fusion-RP	Phenomenex	L1	
				Symmetry C18	Waters		
Nucleodur Pyramid	Macherey Nagel	*					
22.	ChrometiSIL 60-5-C18 H	C18 H	L1	Ascentis Express C18	Supelco	*	
				Halo-C18	Advanced Materials Technology	L1	
				Cadenza 5CL-C18	Imtakt/Silvertone Sciences		
				OmniSpher 5 C18	Varian	*	
				COSMOSILAR-II	Nacalai Tesque	L1	
				Zorbax Extend C18	Agilent		
				CAPCELL C18 SG 120	Shiseido		
				Wakosil II 5C18AR	SGE		
				Zorbax Eclipse XDB-C18	Agilent		
				Zorbax Rx-18	Agilent		
				Chromolith RP18e	Merck		
Denali (120A C18)	Grace/Vydac						
23.	ChrometiSIL 60-5-C4	C4	L26	Alltima C18-WP	Grace-Alltech	L1	
				Zorbax Rx-C8	Agilent	L7	
				Zorbax StableBond 80A C8	Agilent	L1	
				CAPCELL C18 A Q	Shiseido		
				GROM-Sil 120 ODS-4 HE	Grace-Grom	L1	
				Gemini C18 110A	Phenomenex		
				GROM Saphir 110 C18	Grace-Grom	L7	
				YMC ODS-AQ	Waters		
				Onyx Monolithic C8	Phenomenex	L56	
				GROM SAPHIR 110 C8	Grace-Grom		
				Zorbax StableBond 80A C3	Agilent	L7	
				GROM-SIL 120 Octyl-6 MB	Grace-Grom	*	
				TSKgel ODS-80Ts QA	TOSOH Bioscience		
24.	ChrometiSIL 60-5-Phenyl	Phenyl	L11	MicroBondapak Phenyl	Waters	L11	
25.	ChrometiSIL CN	CN	L10	Kromasil KR60-5CN	Akzo Nobel	L10	
				Xterra Phenyl	Waters	L11	
				Curosil-PPF	Phenomenex	*	
				Luna PFP(2)	Phenomenex	L11	
				Genesis Phenyl	Grace-Jones		
ACE Phenyl	MacMod/ACT						

26.	ChrometiSIL HyperSORB 120-5-ODS	ODS	L1	Exsil ODS Sphereclone ODS(2)	SGE Phenomenex	L1
27.	ChrometiSIL SpheriBOND 80-5-ODS1	ODS1	L1	Eşdeğer kolonu bulunmamaktadır		
28.	ChrometiSIL SpheriBOND 80-5-ODS2	ODS2	L1	LiChrospher 100 RP-18 LiChrosorb RP-18 Supelcosil LC-PAH Exsil ODS	Merck Merck Supelco SGE	L1 * L1
29.	ChrometiSIL 300-5-C4	C4	L26	Zorbax StableBond 300A C8	Agilent	L7
				Prevail C8	Grace-Alltech	
				ACE 5 CN-300	MacMod/ACT	L10
				TSKgel Super-Phenyl	TOSOH Bioscience	*
				Zorbax StableBond 300A C3	Agilent	L56
				Bondclone C18	Phenomenex	L1
				ACE Phenyl-300	MacMod/ACT	L11
				HxSil C8	Hamilton	
				Partisil C8	Phenomenex	L7
				LiChrospher 60 RP-Select B	Merck	
				SepaxGP-Phenyl	Sepax	*
				Inertsil Ph-3	GL Science	
				Precision Phenyl	MacMod/Higgins	
				ACE Phenyl	MacMod/ACT	L11
Zorbax XDB-Phenyl	Agilent					
ACE C4	MacMod/ACT	L26				
30.	ChrometiSIL 300-5-C30 EC	C30 EC	L62	Brava BDS C18	Grace-Alltech	
				Selectosil C18	Phenomenex	L1
				MicroBondapak C18	Waters	
				Partisil ODS(3)	Phenomenex	
				Prospere 300 C4	Grace-Alltech	L26
				Nucleosil C18	Macherey Nagel	
				Zorbax StableBond 300A C18	Agilent	
				Genesis C18 300A	Grace-Jones	L1
				Acclaim300 C18	Dionex	
				DeltaPak C18 300A	Waters	
				SepaxBioC18	Sepax	*
				Hypersil BDS C18	Thermo Scientific	L1
				Hypersil GOLD aQ	Thermo Scientific	*
				ACE 5 C18-300	MacMod/ACT	
				Pursuit C18	Varian	L1
				Hypersil Bio Basic-18	Thermo Scientific	
				Platinum C8	Grace-Alltech	L7
				Chromegabond WR C18	ES Industries	
				Superspher 100 RP-18e	Merck KGaA	L1
				Platinum C18	Grace-Alltech	
				VisionHT C18	Grace-Alltech	*
				Vision C18 HL	Grace-Alltech	
				Hypersil ODS-2	Thermo Scientific	L1
Inertsil WP300 C18	GL Science					
Hypersil Elite	Thermo Scientific	*				
Hypersil GOLD PFP	Thermo Scientific	*				
Hichrom 300 5 RPB	HiChrom	*				
Nucleosil C8	Macherey Nagel	L7				
31.	ChrometiSIL 300-5-C30	C30	L62	Alltima HP C18 EPS	Grace-Alltech	L1

USP „L“ Phase Listing

Octadecyl silane chemically bonded to porous silica or ceramic micro-particles, 3 to 10 µm in diameter, or a monolithic rod.	
Brand Name	Manufacturer
Eurosil-Bioselect 300 C18 *	KNAUER
Eurospher 100 C18 *	KNAUER
Hipak ODS AB *	EMR HPLC Technologies
Kromasil C18	EKA Nobel
LiChrosorb RP 18	Merck
LiChrospher 100 RP 18	Merck
LiChrospher 100 RP 18e	Merck
Nucleosil C18	Macherey-Nagel
Nucleosil C18 AB	Macherey-Nagel
Partisil ODS	Whatman Inc.
Partisil ODS2	Whatman Inc.
Partisil ODS3	Whatman Inc.
ChrometiSIL C18 H	EMR HPLC Technologies
ChrometiSIL C18 SH	EMR HPLC Technologies
ChrometiSIL C18 AQ	EMR HPLC Technologies
ChrometiSIL C18 AQ Plus	EMR HPLC Technologies
ChrometiSIL C18 ace-EPS	EMR HPLC Technologies
ChrometiSIL EuroBond C18 *	EMR HPLC Technologies
ChrometiSIL Hypersorb ODS *	EMR HPLC Technologies
ChrometiSIL Spheribond ODS1*	EMR HPLC Technologies
ChrometiSIL Spheribond ODS2*	EMR HPLC Technologies
Sphere-Image ODS1 *	Phenomenex
Sphere-Image ODS2 *	Phenomenex
Superspher 100 RP 18	Merck
Superspher 100 RP 18e	Merck
Techsphere ODS *	Grace Vydac
Zorbax ODS	Agilent Technologies

L1

Octadecyl silane chemically bonded to silica gel of a controlled surface porosity that has been bonded to a solid spherical core, 30 to 50 µm in diameter.

L2

Porous silica particles, 3 to 10 µm in diameter.	
Brand Name	Manufacturer
Eurospher 100 Si *	KNAUER
Kromasil Si	EKA Nobel
LiChrosorb Si 100	Merck
LiChrosorb Si 60	Merck
LiChrospher Si-60	Merck
LiChrospher Si-100	Merck
Micra NPS-Silica *	Eprogen
Nucleosil Silica	Macherey-Nagel
Partisil Si	Whatman Inc.
ChrometiSIL Si	EMR HPLC Technologies
Superspher 60 Si	Merck
Superspher 100 Si *	Merck
Zorbax SIL	Agilent Technologies

L3

Silica gel of controlled surface porosity bonded to a solid spherical core, 30 to 50 µm in diameter.

L4

Alumina of controlled surface porosity bonded to a solid spherical core, 30 to 50 µm in diameter.

L5

L6

Strong cation-exchange packing-sulfonated fluorocarbon polymer coated on a solid spherical core, 30 to 50 µm in diameter.

Octylsilane chemically bonded to totally porous silica particles, 3 to 10 µm in diameter.

Brand Name	Manufacturer
Eurospher 100 C8	KNAUER
HiPak C8 AB *	EMR HPLC Technologies
Kromasil C8	EKA Nobel
LiChrosorb RP 8	Merck
LiChrosorb RP Select B	Merck
LiChrospher 100 RP 8	Merck
LiChrospher 100 RP 8 e	Merck
LiChrospher 60 RP select B	Alltech Associates, Inc.
Nucleosil C8	Macherey-Nagel
Nucleosil C8 ec	Macherey-Nagel
Partisil CCS/C8	Whatman Inc.
ChrometiSIL C8 SH	EMR HPLC Technologies
ChrometiSIL C8 ace-EPS	EMR HPLC Technologies
Sphere-Image C8 *	Phenomenex
Superspher 60 RP 8	Merck
Superspher 60 RP 8e	Merck
Superspher 60 RP select B	Merck
Techsphere Octyl *	Grace Vydac
Zorbax C8	Alltech Associates, Inc.

L7

An essentially monomolecular layer of aminopropylsilane chemically bonded to totally porous silica gel support, 3 to 10 µm in diameter.

Brand Name	Manufacturer
Eurospher 100 NH2	KNAUER
Kromasil NH2	EKA Nobel
LiChrosorb NH2	Merck
LiChrospher NH2	Merck
Nucleosil NH2	Macherey-Nagel
ChrometiSIL AMINO	EMR HPLC Technologies
ChrometiSIL AMINO H	EMR HPLC Technologies
ChrometiSIL AMINO E	EMR HPLC Technologies
Sphere-Image Amino *	Phenomenex
Techsphere Amino *	Grace Vydac
Zorbax NH2	Agilent Technologies

L8

10 µm irregular or spherical, totally porous silica gel having a chemically bonded, strongly acidic cation-exchange coating, 3 to 10 µm in diameter.

Brand Name	Manufacturer
Nucleosil SA	Macherey-Nagel
Partisil SCX	Whatman Inc.
Sphere-Image SCX *	Phenomenex
Zorbax SCX	Agilent Technologies

L9

L10

Nitrile groups chemically bonded to porous silica particles, 3 to 10 µm in diameter.	
Brand Name	Manufacturer
Eurospher 100 CN	KNAUER
Kromasil 60 CN	EKA Nobel
LiChrosorb CN	Merck
LiChrospher CN	Merck
Nucleosil CN	Macherey-Nagel
ChrometiSIL CN	EMR HPLC Technologies
Sphere-Image CN *	Phenomenex
Zorbax CN	Agilent Technologies

L11

Phenyl groups chemically bonded to porous silica particles, 5 to 10 µm in diameter.	
Brand Name	Manufacturer
Kromasil Phenyl *	EKA CHEMICALS
Nucleosil Phenyl	Macherey-Nagel
ChrometiSIL Phenyl	EMR HPLC Technologies
Zorbax Phenyl	Agilent Technologies

L12

A strong anion-exchange packing made by chemically bonding a quaternary amine to a solid silica spherical core, 30 to 50 µm in diameter.
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L13

Trimethylsilane chemically bonded to porous silica particles, 3 to 10 µm in diameter.	
Brand Name	Manufacturer
Zorbax TMS	Agilent Technologies

L14

Silica gel having a chemically bonded, strongly basic quaternary ammonium anion-exchange coating, 5 to 10 µm in diameter.	
Brand Name	Manufacturer
Nucleosil SB	Macherey-Nagel
Partisil SAX	Whatman Inc.
Sphere-Image SAX *	Phenomenex
Zorbax SAX	Agilent Technologies

L15

Hexylsilane chemically bonded to totally porous silica particles, 3 to 10 µm in diameter.	
Brand Name	Manufacturer
ChrometiSIL Spheribond C6	EMR HPLC Technologies

L16

Dimethylsilane chemically bonded to porous silica particles, 5 to 10 µm in diameter.	
Brand Name	Manufacturer
Eurospher 100 C1 *	KNAUER
Lichrosorb RP2	Merck
ChrometiSIL C1	EMR HPLC Technologies

L17

Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the hydrogen form, 7 to 11 µm in diameter.	
Brand Name	Manufacturer
Carbex II (H+) *	VDS optilab
Hamilton HC-75H	Hamilton Co.
Hamilton PRP-X200	Hamilton Co.
Hamilton PRP-X300	Hamilton Co.
Eurokat H *	KNAUER

L18

Amino and cyano groups chemically bonded to porous silica particles, 3 to 10 µm in diameter.	
Brand Name	Manufacturer
Partisil PAC	Whatman Inc.

L19

Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the calcium form, about 9 µm in diameter.	
Brand Name	Manufacturer
Carbex II Ca *	VDS optilab
Hamilton HC 40 *	Hamilton Co.
Hamilton HC 75 Ca	Hamilton Co.
Eurokat Ca *	KNAUER

L20

Dihydroxypropane groups chemically bonded to porous silica particles, 5 to 10 µm in diameter.	
Brand Name	Manufacturer
Eurospher 100 Diol *	KNAUER
Kromasil Diol *	EKA CHEMICALS
LiChrosorb Diol	Merck
LiChrospher 100 Diol	Merck
Nucleosil Diol	Macherey-Nagel
ChrometiSIL Diol	EMR HPLC Technologies

L21

A rigid, spherical styrene-divinylbenzene copolymer, 5 to 10 µm in diameter.	
Brand Name	Manufacturer
Hamilton PRP-1	Hamilton Co.

L22

A cation-exchange resin made of porous polystyrene gel with sulfonic acid groups, about 10 µm in size.	
Brand Name	Manufacturer
Hamilton PRP-X200	Hamilton Co.
Hamilton PRP-X300	Hamilton Co.

L23

An anion-exchange resin made of porous polymethacrylate or polyacrylate gel with quaternary ammonium groups, about 10 µm in size.

L24

A semi-rigid hydrophilic gel consisting of vinyl polymers with numerous hydroxyl groups on the matrix surface, 32 to 63 µm in diameter.

L25

Packing having the capacity to separate compounds with a molecular weight range from 100-5000 (as determined by polyethylene oxide), applied to neutral, anionic, and cationic water-soluble polymers. A polymethacrylate resin base, cross-linked with polyhydroxylated ether (surface contained some residual carboxyl functional groups) was found suitable.

L26

Butyl silane chemically bonded to totally porous silica particles, 3 to 10 µm in diameter.	
Brand Name	Manufacturer
Eurosil Bioselect 300 C4	KNAUER
Eurospher 100 C4 *	KNAUER
Kromasil C4	EKA Nobel
ChrometiSIL C4	EMR HPLC Technologies

L27

Porous silica particles, 30 to 50 µm in diameter.

L28

A multifunctional support, which consists of a high purity, 100 Å, spherical silica substrate that has been bonded with anionic exchanger, amine functionally in addition to a conventional reversed phase C8 functionality.

L29

Gamma alumina, reverse-phase, low carbon percentage by weight, alumina-based polybutadiene spherical particles, 5 µm in diameter with a pore volume of 80 Å.

L30

Ethyl silane chemically bonded to totally porous silica particles, 3 to 10 µm in diameter.

L31

A hydroxide-selective strong anion-exchange resin-quaternary amine bonded on latex particles attached to a core of 8.5 µm macroporous particles having a pore size of 2000 Å and consisting of ethylvinylbenzene cross-linked with 55% divinylbenzene.

L32

A chiral ligand-exchange resin packing-L-proline copper complex covalently bonded to irregularly shaped silica particles, 5 to 10 µm in diameter.

L33

Packing having the capacity to separate dextrans by molecular size over a range of 4.000 to 500.000 daltons. It is spherical, silica-based, and processed to provide pH stability.

L34

Strong cation-exchange resin consisting of sulfonated cross-linked styrene-divinylbenzene copolymer in the lead form, about 9 µm in diameter.	
Brand Name	Manufacturer
Hamilton HC-75 Lead Form	Hamilton Co.
Eurokat Pb *	KNAUER

L35

A zirconium-stabilized spherical silica packing with a hydrophilic (diol-type) molecular monolayer bonded phase having a pore size of 150 Å.

L36

A 3,5-dinitrobenzoyl derivative of L-phenylglycine covalently bonded to 5 µm aminopropyl silica.

L37

Packing having the capacity to separate proteins by molecular size over a range of 2.000 to 40.000 daltons. It is a polymethacrylate gel.

L38

A methacrylate-based size-exclusion packing for water soluble samples.

L39

A hydrophilic polyhydroxymethacrylate gel of totally porous spherical resin.

L40

Cellulose tris-3,5-dimethylphenylcarbamate coated porous silica particles, 5 µm to 20 µm in diameter.	
Brand Name	Manufacturer
Eurocel 01 *	KNAUER

L41

Immobilized α 1-acid glycoprotein on spherical silica particles, 5 µm in diameter.

L42

Octylsilane and octadecylsilane groups chemically bonded to porous silica particles, 5 µm in diameter.

L43

Pentafluorophenyl groups chemically bonded to silica particles by a propyl spacer, 5 to 10 µm in diameter.

L44

A multifunctional support, which consists of a high purity, 60 Å, spherical silica substrate that has been bonded with a cationic exchanger, sulfonic acid functionality in addition to a conventional reversed phase C8 functionality.

L45

Beta cyclodextrin bonded to porous silica particles, 5 to 10 µm in diameter.

L46

Polystyrene/divinylbenzene substrate agglomerated with quaternary amine functionalized latex beads about 10 µm in diameter.

L47

High capacity anion-exchange microporous substrate, fully functionalized with a trimethylamine group, 8 µm in diameter.

L48

Sulfonated, cross-linked polystyrene with an outer layer of submicron, porous, anion-exchange micro beads, 15 µm in diameter.

L49 A reversed-phase packing made by coating a thin layer of polybutadiene on to spherical porous zirconia particles, 3 to 10 μm in diameter.

L50 Multifunction resin with reverse-phase retention and strong anionexchange functionalities. The resin consists of ethylvinylbenzene, 55% cross-linked with divinylbenzene copolymer, 3 to 15 μm in diameter, and a surface area not less than 350 m² per g. Substrate is coated with quaternary ammonium functionalized latex particles consisting of styrene cross-linked with divinylbenzene.

L51 Amylose tris-3,5-dimethylphenylcarbamate-coated, porous, spherical, silica particles, 5 to 10 μm in diameter.

L52 A strong cation exchange resin made of porous silica with sulfopropyl groups, 5 to 10 μm in diameter.

L53 Weak cation-exchange resin consisting of ethylvinylbenzene, 55% cross-linked with divinylbenzene copolymer, 3 to 15 μm diameter. Substrate is surface grafted with carboxylic acid and/or phosphoric acid functionalized monomers. Capacity not less than 500 μEq /column.

L54 A size exclusion medium made of covalent bonding of dextran to highly cross-linked porous agarose beads, about 13 μm in

L55 A strong cation exchange resin made of porous silica coated with polybutadiene-maleic acid copolymer, about 5 μm in diameter.

L56 Propyl silane chemically bonded to totally porous silica particles, 3 to 10 μm in diameter.

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L62 C30 silane bonded phase on a fully porous spherical silica, 3 to 15 μm in diameter.

Brand Name	Manufacturer
ChrometiSIL C30	EMR HPLC Technologies

* USP listing in preparation