

GC Column Selection by USP Specifications

Listed below are a few of our recommended GC columns for USP methods. Other possible columns can also be used for these analyses. Please contact Phenomenex for your specific GC column needs.

USP Column Classification

USP	Phase Composition	Phenomenex Recommendation	Page
G1	Dimethylpolysiloxane oil	ZB-1, ZB-1ms, ZB-1HT	89, 90, 91
G2	Dimethylpolysiloxane gum	ZB-1, ZB-1ms, ZB-1HT	89, 90, 91
G3	50 % Phenyl-50 % methylpolysiloxane	ZB-50	102
G5	3-Cyanopropylpolysiloxane	BPX70	117
G7	50 % 3-Cyanopropyl-50 % phenylmethylsilicone	007-225	118
G14	Polyethylene glycol (average MW 950-1,050)	ZB-WAX, ZB-WAX _{PLUS}	103, 104
G15	Polyethylene glycol (average MW 3,000-3,700)	ZB-WAX, ZB-WAX _{PLUS}	103, 104
G16	Polyethylene glycol (average MW 15,000)	ZB-WAX, ZB-WAX _{PLUS}	103, 104
G17	75 % Phenyl-25 % methylpolysiloxane	ZB-50	102
G19	25 % Phenyl-25 % cyanopropylmethylsilicone	007-225	118
G20	Polyethylene glycol (average MW of 380-420)	ZB-WAX, ZB-WAX _{PLUS}	103, 104
G25	Polyethylene glycol TPA (Carbowax 20M terephthalic acid)	ZB-FFAP	105
G27	5 % Phenyl-95 % methylpolysiloxane	ZB-5, ZB-5MSi, ZB-5HT	93, 94, 96-97
G27	5 % Phenyl-Arylene-95 % methylpolysiloxane	ZB-5ms	95
G28	25 % Phenyl-75 % methylpolysiloxane	ZB-35, ZB-35HT	100, 101
G32	20 % Phenylmethyl-80 % dimethylpolysiloxane	ZB-35, ZB-35HT	100, 101
G35	Polyethylene glycol & diepoxide esterified with nitroterephthalic acid	ZB-FFAP	105
G36	1 % Vinyl-5 % phenylmethylpolysiloxane	ZB-5, ZB-5MSi, ZB-5HT	93, 94, 96-97
G38	Phase G1 plus a tailing inhibitor	ZB-1, ZB-1ms, ZB-1HT	89, 90, 91
G39	Polyethylene glycol (average MW 1,500)	ZB-WAX, ZB-WAX _{PLUS}	103, 104
G41	Phenylmethyldimethylsilicone (10 % phenyl substituted)	ZB-5, ZB-5MSi, ZB-5HT	93, 94, 96-97
G42	35 % Phenyl-65 % dimethylpolysiloxane	ZB-35, ZB-35HT	100, 101
G43	6 % Cyanopropylphenyl-94 % dimethylpolysiloxane	ZB-624	106
G46	14 % Cyanopropylphenyl-86 % methylpolysiloxane	ZB-1701, ZB-1701P	107, 108
G48	Highly polar, partially cross-linked cyanopolysiloxane	BPX70	117