

**WINLAB PTY LTD**

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Email: [info@winlab.com.au](mailto:info@winlab.com.au) [www.winlab.com.au](http://www.winlab.com.au)**GL Science Inertsearch™ for LC Inertsil® Applications****Vitamin****For complete Product Description, Chromatograms****Price & Delivery in Australia & New Zealand contact****[info@winlab.com.au](mailto:info@winlab.com.au) or call 61 7 3205 5233**

<b>GL Science Inertsearch™ for LC Inertsil® Applications Vitamin</b>					
<b>Data No Column</b>	<b>Data Title</b>	<b>Solutes</b>	<b>Eluent</b>	<b>Detection</b>	
<a href="#">Data No. B01</a> <a href="#">ODS-2-006</a>	Inertsil ODS-2 5□□m 250 □~ 4.6 mm I.D.	Fat-soluble Vitamins	1. Vitamin K3 2. Vitamin A 3. Vitamin D2 4. Vitamin D3 5. Vitamin E 6. Vitamin E acetate 7. Vitamin K1	CH <sub>3</sub> CN CH <sub>3</sub> OH Isocratic	UV 280nm
<a href="#">Data No. B02</a> <a href="#">ODS-2-007</a>	Inertsil ODS-2 5□□m 150 □~ 4.6 mm I.D.	Water Soluble Vitamins	1. L-Ascorbic acid 2. Nicotinic acid 3. Nicotinamide 4. Pyridoxal 5. Pyridoxamine 6. Pyridoxine 7. Thiamine 8. Folic acid 9. Cyanocobalamin 10. Riboflavin	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> IPCC-05 Gradient	UV 254 nm
<a href="#">Data No. B03</a> <a href="#">ODS-2-008</a>	Inertsil ODS-2 5□□m 150 □~ 4.6 mm I.D.	Water-soluble Vitamins	1. Nicotinic acid 2. Nicotinamide 3. Pantothenic acid 4. Folic acid 5. Unknown 6. D-Biotin 7. Riboflavin	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> KH <sub>2</sub> PO <sub>4</sub> Isocratic	UV 210 nm
<a href="#">Data No. B04</a> <a href="#">C8-002</a>	Inertsil C8 5□□m 150 □~ 4.6 mm I.D.	Water-soluble Vitamins	1. Nicotinamide 2. L-Ascorbic acid 3. Erythobic acid (D-iso-Ascorbic acid) 4. Nicotinic acid	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> KH <sub>2</sub> PO <sub>4</sub> C <sub>16</sub> H <sub>33</sub> -N(CH <sub>3</sub> ) <sub>3</sub> Br Isocratic	UV 254 nm
<a href="#">Data No. B05</a> <a href="#">ODS-2-009</a>	Inertsil ODS-2 5□□m 250 □~ 4.6 mm I.D.	Vitamin E (Tocopherol) in Mother's milk	1. □□-Tocopherol	CH <sub>3</sub> CN CH <sub>3</sub> OH Isocratic	UV 295 nm
<a href="#">Data No. B06</a> <a href="#">SIL-150A-001</a>	Inertsil SIL-150A 5□□m 5020-01011	Vitamin E (Tocopherols) in Margarine	1. □□-Tocopherol 2. D-□□-Tocopherol 3. D-□□-Tocopherol 4. D-□□-Tocopherol	Ethanol n-Hexane Isocratic	FL Ex 300 nm Em 330 nm
<a href="#">Data No. B07</a> <a href="#">ODS-2-010</a>	Inertsil ODS-2 5□□m 150 □~ 0.7 mm I.D.	Fat-soluble Vitamins	1. Vitamin A 2. Vitamin D2 3. Vitamin D3 4. Vitamin E 5. Vitamin E acetate 6. Vitamin K1	CH <sub>3</sub> CN CH <sub>3</sub> OH Isocratic	UV 280 nm

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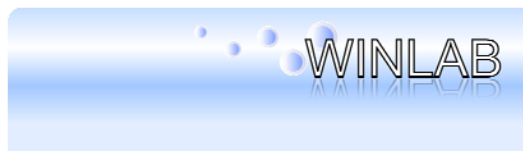

GL Science Inertsearch™ for LC Inertsil® Applications Vitamin					
Data No Column	Data Title	Solutes	Eluent	Detection	
<a href="#">Data No. B08 ODS-80A-001</a>	Inertsil ODS-80A 5□□m 150 □~ 4.6 mm I.D	Water-soluble Vitamins	1. D-Ascorbic acid 2. Nicotinic acid 3. Nicotinamide 4. Pantothenic acid 5. Pyridoxal 6. Pyridoxine 7. Pyridoxamine 8. Thiamine	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> C <sub>6</sub> H <sub>13</sub> -SO <sub>3</sub> Na Isocratic	UV 210 nm
<a href="#">Data No. B09 ODS-80A-002</a>	Inertsil ODS-80A 5□□m 150 □~ 4.6 mm I.D.	Carotenes	1. □□-Carotene (0.5 mg/mL) 2. □□-Carotene (1.0 mg/mL)	CH <sub>3</sub> CN Ethanol Isocratic	VIS 450 nm
<a href="#">Data No. B10 AV-1-001</a>	Bioptic AV-1 5□□m 150 □~ 4.6 mm I.D.	Menadiione sodium bisulfite	Vitamin K3	H <sub>2</sub> O KH <sub>2</sub> PO <sub>4</sub> KOH Isocratic	UV 210 nm
<a href="#">Data No. B11 ODS-3V-003</a>	Inertsil ODS-3V 150 □~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (0.18 mg/mL) 2. Vitamin E (0.36 mg/mL) 3. Vitamin E acetate (0.36 mg/mL) 4. Vitamin K1 (0.09 mg/mL)	CH <sub>3</sub> OH Isocratic	UV 280 nm
<a href="#">Data No. B12 C8-3-001</a>	Inertsil C8-3 5□□m 150 □~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (0.18 mg/mL) 2. Vitamin D3 (0.03 mg/mL) 3. Vitamin E (0.36 mg/mL) 4. Vitamin E acetate (0.36 mg/mL) 5. Vitamin K1 (0.09 mg/mL)	CH <sub>3</sub> OH H <sub>2</sub> O Isocratic	UV 280 nm
<a href="#">Data No. B13 ODS-3-001</a>	Inertsil ODS-3 250 □~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (37 □□g/mL) 2. Vitamin A (74 □□g/mL) 3. Vitamin A acetate (222 □□g/mL) 4. Vitamin D2 (111 □□g/mL) 5. Vitamin D3 (37 □□g/mL) 6. □□-Tocopherol (667 □□g/mL) 7. Vitamin E acetate (667 □□g/mL) 8. Vitamin K1 (370 □□g/mL)	CH <sub>3</sub> CN CH <sub>3</sub> OH Isocratic	UV 280 nm
<a href="#">Data No. B14 ODS-3-002</a>	Inertsil ODS-3 150 □~ 4.6 mm I.D.	Carotene	1. □□-Carotene (0.022 mg/mL) 2. □□-Carotene (1.935 mg/mL)	CH <sub>3</sub> CN Ethanol Isocratic	VIS 450 nm
<a href="#">Data No. B15 ODS-3V-004</a>	Inertsil ODS-3V 150 □~ 4.6 mm I.D.	Water Soluble Vitamins	1. Pyridoxine (0.10 mg/mL) 2. Riboflavin (0.10 mg/mL) 3. Fursultiamine (1.00 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> C <sub>5</sub> H <sub>11</sub> SO <sub>3</sub> Na Isocratic	UV 210 nm
<a href="#">Data No. B16 ODS-3V-005</a>	Inertsil ODS-3V 150 □~ 4.6 mm I.D.	Water Soluble Vitamins	1. Nicotinamide (0.40 mg/mL) 2. Pantothenic acid (0.20 mg/mL) 3. Pyridoxine (0.24 mg/mL) 4. Riboflavin phosphate (0.38 mg/mL) 5. Thiamine (0.12 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> C <sub>6</sub> H <sub>13</sub> SO <sub>3</sub> Na Isocratic	UV 210 nm

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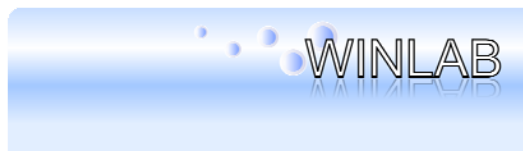
GL Science Inertsearch™ for LC Inertsil® Applications Vitamin					
Data No Column	Data Title	Solutes	Eluent	Detection	
<a href="#">Data No. B17 ODS-3V-006</a>	Inertsil ODS-3V 150 µ~ 4.6 mm I.D.	Vitamins	1. L-Ascorbic acid (0.12 mg/mL) 2. Nicotinic acid (0.10 mg/mL) 3. Nicotinamide (0.10 mg/mL) 4. Pyridoxal (0.47 mg/mL) 5. Pyridoxamine (0.37 mg/mL) 6. Pyridoxine (0.50 mg/mL) 7. Thiamine (0.07 mg/mL) 8. Cyanocobalamin (0.33 mg/mL) 9. Riboflavin (0.07 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> C <sub>5</sub> H <sub>11</sub> SO <sub>3</sub> Na Gradient	UV 254 nm
<a href="#">Data No. B18 ODS-3V-007</a>	Inertsil ODS-3V 150 µ~ 4.6 mm I.D.	Vitamins	1. Erythrobic acid (D-iso-Ascorbic acid) (0.48 mg/mL) 2. Nicotinic acid (0.09 mg/mL) 3. Nicotinamide (0.04 mg/mL) 4. Pantothenic acid (0.48 mg/mL) 5. Pyridoxal (0.17 mg/mL) 6. Pyridoxine (0.13 mg/mL) 7. Pyridoxamine (0.26 mg/mL) 8. Thiamine (0.35 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> C <sub>6</sub> H <sub>13</sub> SO <sub>3</sub> Na Isocratic	UV 210 nm
<a href="#">Data No. B19 ODS-3V-008</a>	Inertsil ODS-3V 150 µ~ 4.6 mm I.D.	Vitamins	1. Nicotinic acid (0.064 mg/mL) 2. Nicotinamide (0.032 mg/mL) 3. Calcium Pantothenate (0.322 mg/mL) 4. Folic acid (0.322 mg/mL) 5. Cyanocobalamin (0.129 mg/mL) 6. Riboflavin (0.129 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O Buffer Isocratic	UV 210 nm
<a href="#">Data No. B20 ODS-3-003</a>	Inertsil ODS-3 250 µ~ 4.6 mm I.D.	Vitamins	1. D-α-Tocopherol (0.2 mg/mL) 2. D-β-Tocopherol (0.2 mg/mL) 3. γ-Tocopherol (0.2 mg/mL) 4. Vitamin E acetate (2.4 mg/mL)	CH <sub>3</sub> OH Isocratic	UV 295 nm
<a href="#">Data No. B21 CN-3-002</a>	Inertsil CN-3 5 µm 250 µ~ 4.6 mm I.D.	Vitamins	1. Vitamin K1 (0.14 mg/mL) 2. Vitamin A acetate (0.14 mg/mL) 3. Vitamin K3 (0.14 mg/mL) 4. Vitamin E (0.14 mg/mL) 5. Vitamin D3 (0.14 mg/mL) 6. Vitamin A (0.14 mg/mL)	Ethanol n-Hexane Isocratic	UV 280 nm
<a href="#">Data No. B22 CN-3-003</a>	Inertsil CN-3 5 µm 250 µ~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (0.14 mg/mL) 2. Vitamin A (0.14 mg/mL) 3. Vitamin A acetate (0.14 mg/mL) 4. Vitamin D3 (0.14 mg/mL) 5. Vitamin E (0.14 mg/mL) 6. Vitamin K1 (0.14 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O Isocratic	UV 280 nm

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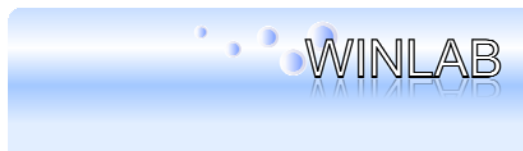
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<a href="#">Data No. B23 ODS-3V-009</a>	Inertsil ODS-3V 5µm 150 µ~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (0.14 mg/mL) 2. Vitamin A (0.14 mg/mL) 3. Vitamin A acetate (0.14 mg/mL) 4. Vitamin D3 (0.14 mg/mL) 5. Vitamin E (0.14 mg/mL) 6. Vitamin E acetate (0.14 mg/mL) 7. Vitamin K1 (0.14 mg/mL)	CH <sub>3</sub> OH Isocratic	UV 280 nm
<a href="#">Data No. B24 ODS-3V-010</a>	Inertsil ODS-3V 5µm 150 µ~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (0.05 mg/mL) 2. Vitamin A (0.05 mg/mL) 3. Vitamin A acetate (0.05 mg/mL) 4. Vitamin D3 (0.05 mg/mL) 5. Vitamin E (0.05 mg/mL) 6. Vitamin E acetate (0.05 mg/mL) 7. Vitamin K1 (0.05 mg/mL) 8. β-Carotene (0.03 mg/mL) 9. α-Carotene (0.08 mg/mL)	CH <sub>3</sub> OH Ethanol Isocratic	UV 280 nm VIS 450 nm
<a href="#">Data No. B25 CN-3-004</a>	Inertsil CN-3 5µm 250 µ~ 4.6 mm I.D.	Vitamins	1. β-Carotene (0.13 mg/mL) 2. Vitamin K1 (0.07 mg/mL) 3. Vitamin A acetate (0.07 mg/mL) 4. Vitamin K3 (0.07 mg/mL) 5. Vitamin E (0.07 mg/mL) 6. Vitamin D3 (0.07 mg/mL) 7. Vitamin A (0.07 mg/mL)	Ethanol n-Hexane Isocratic	UV 280 nm VIS 450 nm
<a href="#">Data No. B26 C8-3-002</a>	Inertsil C8-3 5µm 150 µ~ 4.6 mm I.D.	Vitamins	1. Vitamin K3 (0.07 mg/mL) 2. Vitamin A (0.07 mg/mL) 3. Vitamin A acetate (0.07 mg/mL) 4. Vitamin D3 (0.07 mg/mL) 5. Vitamin E (0.07 mg/mL) 6. Vitamin E acetate (0.07 mg/mL) 7. Vitamin K1 (0.07 mg/mL) 8. β-Carotene (0.13 mg/mL)	CH <sub>3</sub> OH H <sub>2</sub> O Isocratic	UV 280 nm VIS 450 nm
<a href="#">Data No. B27 ODS-3-004</a>	Inertsil ODS-3 5µm 150 µ~ 4.6 mm I.D.	Folic acid	Folic acid (100 ppb in 10 % CH <sub>3</sub> CN 10 mM K <sub>2</sub> HPO <sub>4</sub> 1 mM EDTA)	CH <sub>3</sub> CN H <sub>2</sub> O KH <sub>2</sub> PO <sub>4</sub> Isocratic	UV 254 nm ECD 750 mV
<a href="#">Data No. B28 ODS-3-005</a>	Inertsil ODS-3 5µm 150 µ~ 4.6 mm I.D.	Vitamin C	Vitamin C	H <sub>2</sub> O KH <sub>2</sub> PO <sub>4</sub> EDTA Isocratic	UV 254 nm ECD 200 mV
<a href="#">Data No. B29 ODS-3-006</a>	Inertsil ODS-3 5µm 150 µ~ 4.6 mm I.D.	Vitamin K	1. Vitamin K3 2. Vitamin E 3. Vitamin E acetate 4. Vitamin K1	CH <sub>3</sub> CN CH <sub>3</sub> OH NaClO <sub>4</sub> Isocratic	UV 280 nm ECD W1 200 mV W2 400 mV
<a href="#">Data No. B30 ODS-3-007</a>	Inertsil ODS-3 5µm 150 µ~ 4.6 mm I.D. + µm µµµµµµµµJµµµµ 30 µ~ 4.0 mm I.D.	Vitamin K	1. Vitamin K2 (2 ppb) 2. Vitamin K1 (4 ppb)	CH <sub>3</sub> OH Ethanol NaClO <sub>4</sub> Isocratic	ECD 200 mV



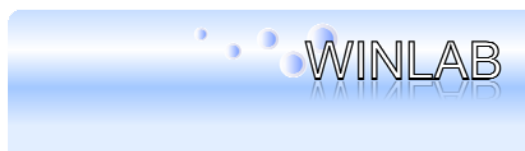
<b>GL Science Inertsearch™ for LC Inertsil® Applications Vitamin</b>					
<b>Data No Column</b>	<b>Data Title</b>	<b>Solutes</b>	<b>Eluent</b>	<b>Detection</b>	
<a href="#">Data No. B31 NH2-001</a>	Inertsil NH2 5 μm 250 μ~ 4.6 mm I.D.	Water-soluble vitamins	1. Nicotinamide 2. Nicotinic acid 3. Pyridoxine 4. Folic acid 5. Cyanocobalamin 6. Riboflavin 7. Thiamine	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> KH <sub>2</sub> PO <sub>4</sub> Isocratic	UV 220 nm
<a href="#">Data No. B32 NH2-002</a>	Inertsil NH2 5 μm 250 μ~ 4.6 mm I.D.	Ascorbic acid	1. Erythorbic acid (D-iso-Ascorbic acid) (0.05 mg/mL) 2. L-Ascorbic acid (0.05 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O Phosphate buffer Isocratic	UV 254 nm
<a href="#">Data No. B33 NH2-003</a>	Inertsil NH2 5 μm 250 μ~ 4.6 mm I.D.	Tocopherol	1. α-Tocopherol 2. β-Tocopherol 3. γ-Tocopherol 4. δ-Tocopherol	Ethyl acetate n-Hexane Isocratic	UV 290 nm
<a href="#">Data No. B34 ODS-3-008</a>	Inertsil ODS-3 5 μm 150 μ~ 4.6 mm I.D.	Analysis of Water-soluble Vitamins	1. L-Ascorbic acid (1.6 mg/mL) 2. Nicotinic acid (0.3 mg/mL) 3. Pyridoxal (0.57 mg/mL) 4. Pyridoxine (0.43 mg/mL) 5. Pyridoxamine (0.87 mg/mL) 6. Thiamine (1.17 mg/mL) 7. Folic acid (6.0 mg/mL) 8. Riboflavin (1.0 mg/mL) 9. Cyanocobalamin (1.0 mg/mL)	CH <sub>3</sub> CN H <sub>2</sub> O H <sub>3</sub> PO <sub>4</sub> C <sub>6</sub> H <sub>13</sub> -SO <sub>3</sub> Na Gradient	UV 210 nm
<a href="#">Data No. B35 Diol-014</a>	Inertsil Diol 5 μm 250 x 4.6 mm I.D.	Analysis of Water-soluble Vitamins	1. Vitamin B1 (Thiamine) 2. Vitamin B3 (Niacin Nicotinic acid) 3. Vitamin B3 (Nicotinamide) 4. Vitamin C (L-Ascorbic acid) 5. Vitamin B2 (Riboflavin)	A) CH <sub>3</sub> CN B) H <sub>2</sub> O C) TFA A/B/C = 90/10/0.1 w/w/v	UV 254 nm
<a href="#">Data No. B36 ODS-P-015</a>	Inertsil ODS-P 5 μm 150 x 4.6 mm I.D.	Analysis of Carotenoids	1. α-Carotene 2. β-Carotene 3. Lycopene	A) CH <sub>3</sub> OH B) THF A/B = 95/5 v/v	VIS 450 nm
<a href="#">Data No. B37 ODS-3-055</a>	Inertsil ODS-3 5 μm 150 x 4.6 mm I.D.	Analysis of Carotenoids	1. Lycopene 2. α-Carotene 3. β-Carotene	A) CH <sub>3</sub> OH B) THF A/B = 95/5 v/v	VIS 450 nm
<a href="#">Data No. B38 ODS-P-017</a>	Inertsil ODS-P 5 μm 250 x 4.6 mm I.D.	Analysis of Carotenoids	1. α-Carotene 2. β-Carotene	A) CH <sub>3</sub> OH B) THF A/B = 95/5 v/v	VIS 450 nm
<a href="#">Data No. B39 ODS-3-056</a>	Inertsil ODS-3 5 μm 250 x 4.6 mm I.D.	Analysis of Carotenoids	1. α-Carotene 2. β-Carotene	A) CH <sub>3</sub> OH B) THF A/B = 95/5 v/v	VIS 450 nm
<a href="#">Data No. B40 ODS-2-062</a>	Inertsil ODS-2 5 μm 250 x 4.6 mm I.D.	Analysis of Carotenoids	1. α-Carotene 2. β-Carotene	A) CH <sub>3</sub> OH B) THF A/B = 95/5 v/v	VIS 450 nm
<a href="#">Data No. B41 ODS-P-019</a>	Inertsil ODS-P 5 μm 250 x 4.6 mm I.D.	Analysis of Vegetable Juice	1. α-Carotene 2. β-Carotene 3. Lycopene	A) CH <sub>3</sub> OH B) THF A/B = 95/5 v/v	VIS 450 nm

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<a href="#">Data No. B42 ODS-P-023</a>	Inertsil ODS-P 5 □□m 150 x 4.6 mm I.D.	Analysis of Vitamin D2 and D3	1. Vitamin D2 2. Vitamin D3	A) CH <sub>3</sub> CN B) CH <sub>3</sub> OH A/B = 75/25 v/v	UV 280 nm
<a href="#">Data No. B43 ODS-3-061</a>	Inertsil ODS-3 5 □□m 150 x 4.6 mm I.D.	Analysis of Vitamin D2 and D3	1. Vitamin D2 2. Vitamin D3	A) CH <sub>3</sub> CN B) CH <sub>3</sub> OH A/B = 75/25 v/v	UV 280 nm

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