

Conditions

Column: ACE 3 C18
Dimensions: 100 x 4.6 mm
Part Number: ACE-111-1046
Mobile Phase: A: H₂O
 B: MeOH
 C: 0.06 M Tetrabutylammonium bromide and 0.5 M KH₂PO₄ in H₂O pH 2.55

Gradient:	Time (mins)	%A	%B	%C	Curve
	0	45	50	5	
	45	3	92	5	6
	65	3	92	5	11
	66	45	50	5	1
	75	45	50	5	1

Flow Rate: 1 mL/min
Injection: 10 µL
Temperature: Ambient
Detection: UV-Vis, 420 nm, 520 nm and 600 nm

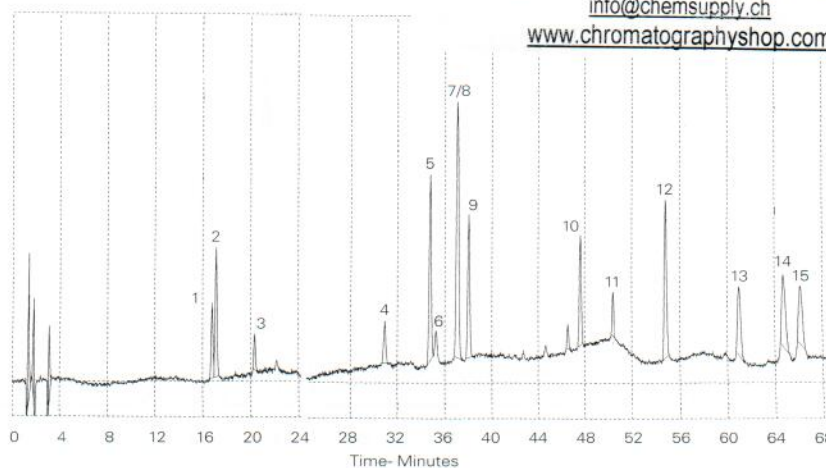
Analytes

- | | | |
|-------------------|-------------------|------------------|
| 1. Rhodamine B | 6. Sudan Orange G | 11. Sudan Black |
| 2. Orange II | 7. Toluidine Red | 12. Sudan III |
| 3. Metanil Yellow | 8. Sudan I | 13. Sudan Red 7B |
| 4. Butter Yellow | 9. Sudan Red G | 14. Sudan Red B |
| 5. Para Red | 10. Sudan II | 15. Sudan IV |

Available from



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Insulin Analogues in Clinical and Post-Mortem Analyses

Conditions

Column: ACE 5 C18-300
Dimensions: 50 x 2.1 mm
Part Number: ACE-221-0502
Mobile Phase: A: 0.1% acetic acid in H₂O
 B: 0.1% acetic acid in IPA/MeCN (25:75 v/v)

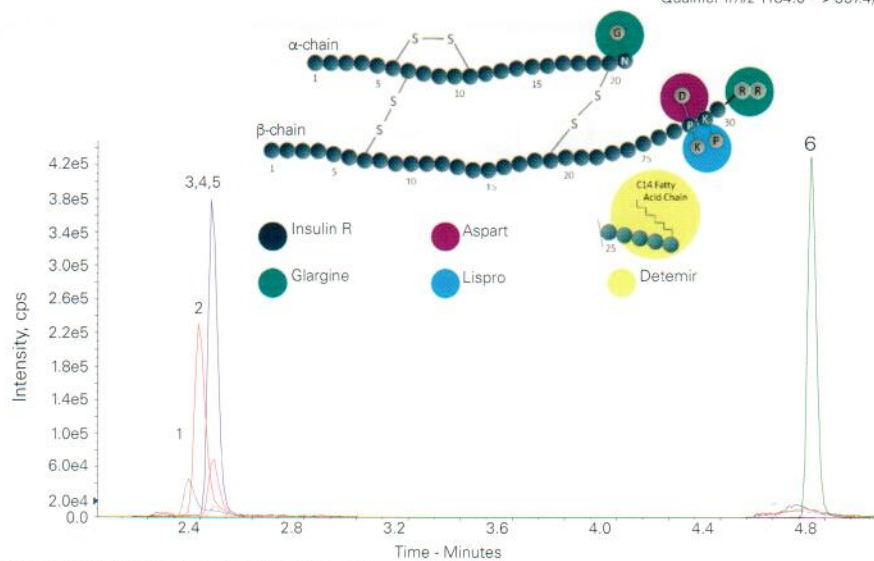
Gradient:	Time (mins)	%B
	0.0	22
	0.5	22
	1.0	34
	3.0	36
	4.0	98
	6.2	98
	6.3	22

Flow Rate: 0.55 mL/min
Injection: 40 µL
Detection: AB Sciex QTRAP 5500
 ESI positive ion mode
 Ion spray voltage: 5500 V
 Temperature: 600 °C

Sample: 100 µU/mL insulin analogues in steroid-free serum

Analytes

- | | | |
|--|---|---|
| 1. Glargine
MW 6063
Quantifier (m/z 867.2 → 136)
Qualifier (m/z 1011.4 → 1164.2)
Qualifier (m/z 1011.4 → 1179.4) | 3. Aspart
MW 5826
Quantifier (m/z 971.7 → 136)
Qualifier (m/z 1166 → 219)
Qualifier (m/z 971.7 → 226.1) | 5. Insulin R
MW 5808
Quantifier (m/z 1162.4 → 345.2)
Qualifier (m/z 1162.3 → 65.2)
Qualifier (m/z 1162.4 → 226.1) |
| 2. Bovine insulin (IS)
MW 5800
Quantifier (m/z 956.5 → 136.1)
Qualifier (m/z N/A) | 4. Lispro
MW 5808
Quantifier (m/z 1162.4 → 217)
Qualifier (m/z 968.6 → 217) | 6. Detemir
MW 5917
Quantifier (m/z 1184 → 454.4)
Qualifier (m/z 987 → 454.4)
Qualifier (m/z 1184.0 → 357.4) |



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