

CoreFocus
Report
No.139

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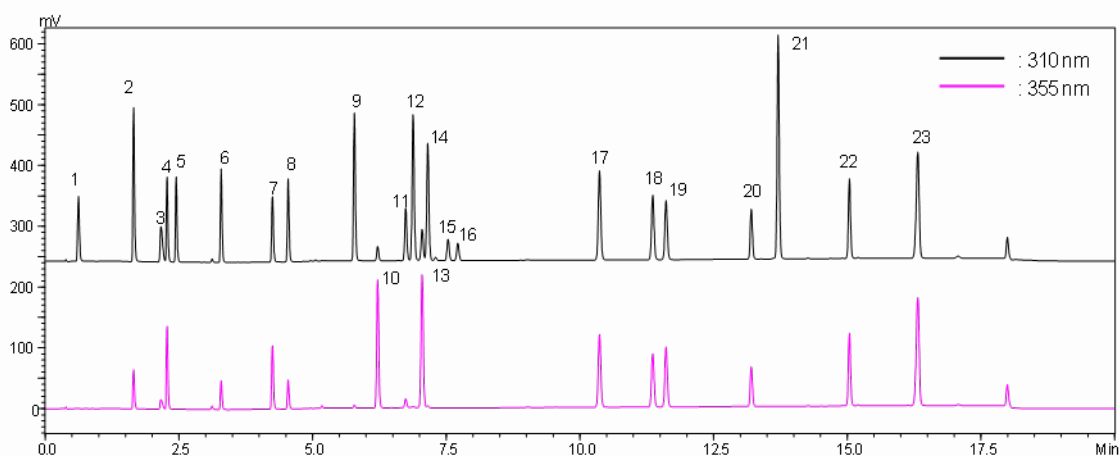
Reversed-phase

Shim-pack™ Series

Shim-pack Velox™ C18

Analysis of Regulated UV-Adsorbents in Cosmetics

Keywords: UV absorbents, ingredients, sunscreen, sun protection



1. 4-aminobenzoic acid, 2. ferulic acid, 3. 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid, 4. 2,2',4,4'-tetrahydroxybenzophenone, 5. ethyl 4-aminobenzoate, 6. 2,4-dihydroxybenzophenone, 7. 2,2'-dihydroxy-4,4'-dimethoxybenzophenone, 8. 2-hydroxy-4-methoxybenzophenone, 9. 4-methylbenzylidene camphor, 10. Hexyl 2-[4-(diethylamino)-2-hydroxybenzoyl]benzoate, 11. 2-ethylhexyl 2-cyano-3,3-diphenylacrylate, 12. 2-ethylhexyl-4-dimethylaminobenzoate, 13. 4-tert-butyl-4'-methoxydibenzoylmethane, 14. 2-ethylhexyl 4-methoxycinnamate, 15. 2-ethylhexyl salicylate, 16. 3,3,5-trimethylcyclohexyl salicylate, 17. 2-benzotriazol-2-yl-4,6-di-tert-butylphenol, 18. 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol, 19. 2,4-di-tert-butyl-6-(5-chloro-2H-benzotriazol-2-yl)phenol, 20. drometrisole trisiloxane, 21. 2,4,6-tris[4-(2-ethylhexyloxycarbonyl)-anilino]-1,3,5-triazine, 22. 2,2'-methylenebis[6-(benzotriazol-2-yl)-4-tert-octylphenol], 23. bis-ethylhexyloxyphenol methoxyphenyl triazine (100 mg/L each)

System	: Nexera™
Column	: Shim-pack Velox C18 (100 mm L × 3.0 mm I.D., 2.7 μm), P/N : 227-32010-03
Gradient mode	: Low pressure gradient
Mobile phase	: A) 0.1 % Formic acid in water B) Acetonitrile C) Methanol
Flow rate	: 1 mL/min
Column temp.	: 60 °C
Injection vol.	: 1 μL
Detection	: UV 310 nm, 355 nm

Time program

Time (min)	A Conc.	B Conc.	C Conc.
0	90	10	0
2	60	40	0
4	25	0	75
14	0	0	100
17	0	0	100
17.01	90	10	0
20	90	10	0

Source : Application News L.541 ([JP](#), [ENG](#))

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