[APPLICATION NOTE]

Waters
THE SCIENCE OF WHAT'S POSSIBLE.™

ANALYSIS OF AROMATIC ACIDS USING ATLANTIS T3

CLICK ON PART NUMBERS FOR MORE INFORMATION

TEST CONDITIONS

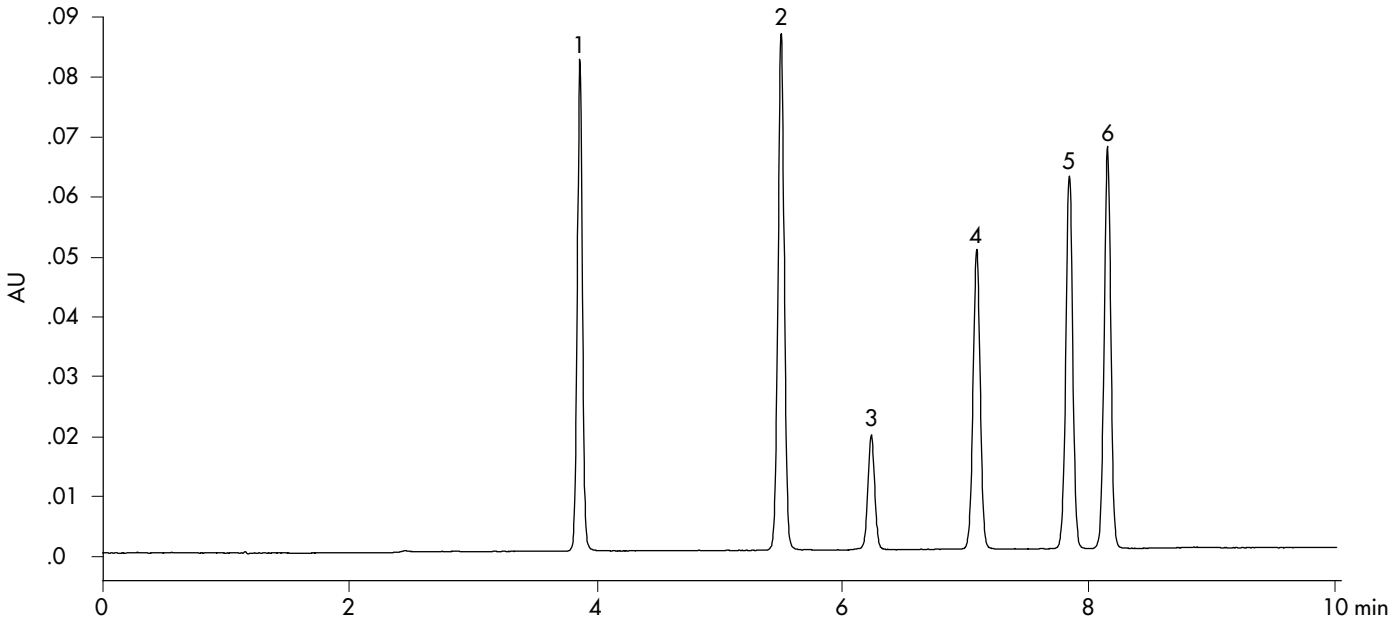
Column:	Atlantis® T3, 4.6 x 150 mm, 5 µm
Part Number:	186003747
Mobile Phase A:	H_2O
Mobile Phase B:	ACN
Mobile Phase C:	100 mM $HCOONH_4$, pH 3.0
Flow Rate:	2.0 mL/min
Gradient:	Time Profile

Time (min)	%A	%B	%C
0.00	90	0	10
10.00	65	25	10
11.00	90	0	10
15.00	90	0	10

Injection Volume:	10 µL
Sample:	Gallic acid (20 µg/mL), Protocatechuic acid (40 µg/mL), Gentisic acid (80 µg/mL), 4-Hydroxybenzoic acid (70 µg/mL), Vanillic acid (30 µg/mL), Syringic acid (20 µg/mL) in H_2O
Column Temperature:	30 °C
Sample Temperature:	15 °C
Detection:	UV @ 285 nm
Sampling Rate:	5 point/sec
Filter Response:	0.2
Instrument:	Waters Alliance® 2695 with 2996 PDA

COMPOUNDS

1. Gallic acid
2. Protocatechuic acid
3. Gentisic acid
4. 4-Hydroxybenzoic acid
5. Vanillic acid
6. Syringic acid



www.waters.com

Austria and European Export (Central South Eastern Europe, CIS and Middle East) 43 1 877 18 07, **Australia** 61 2 9933 1777, **Belgium** 32 2 726 1000, **Brazil** 55 11 4134 3788, **Canada** 1 800 252 4752 x2205, **China** 86 21 6879 5888, **CIS/Russia** +497 727 4490/290 9737, **Czech Republic** 420 2 617 1 1384 **Denmark** 45 46 59 8080, **Finland** 358 9 5659 6288, **France** 33 1 30 48 72 00, **Germany** 49 6196 400600, **Hong Kong** 852 29 64 1800 **Hungary** 36 1 350 5086, **India and India Subcontinent** 91 80 2837 1900, **Ireland** 353 1 448 1500, **Italy** 39 02 265 0983, **Japan** 81 3 3471 7191 **Korea** 82 2 820 2700, **Mexico** 52 55 5524 7636, **The Netherlands** 31 76 508 7200, **Norway** 47 6 384 60 50, **Poland** 48 22 833 4400 **Puerto Rico** 1 787 747 8445, **Singapore** 65 6273 7997, **Spain** 34 93 600 9300, **Sweden** 46 8 555 11 500, **Switzerland** 41 56 676 70 00 **Taiwan** 886 2 2543 1898, **United Kingdom** 44 208 238 6100

All other countries: Waters Corporation U.S.A. 1 508 478 2000/1 800 252 4752

Waters

THE SCIENCE OF WHAT'S POSSIBLE.™

Waters, Atlantis and Alliance are registered trademarks of Waters Corporation. The Science of What's Possible is a trademark of Waters Corporation. All other trademarks are the property of their respective owners.

©2009 Waters Corporation. Printed/Produced in the U.S.A.

January 2009 WA60220 KK-PDF

Waters Corporation
34 Maple Street
Milford, MA 01757 U.S.A.
T: 1 508 478 2000
F: 1 508 872 1990
www.waters.com