

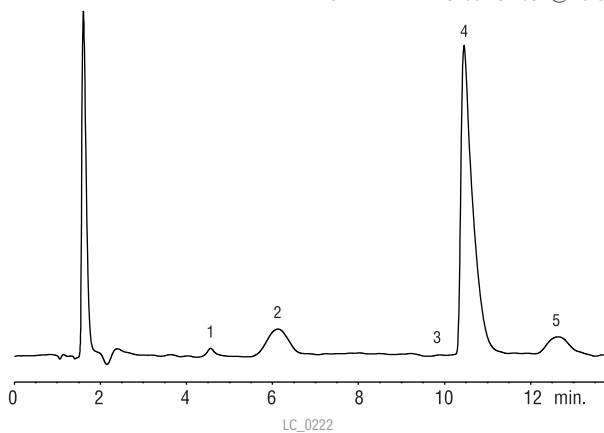
Laxative Lactulose Concentrate by USP 25: Resolution Solution on Pinnacle® II Amino

Peak List:	Conc. (mg/mL)	Ret. Time (min.)	RRT	Res.	Inj. % RSD (n = 5)
1. fructose	0.4	4.6	0.44	—	—
2. galactose	6.4	6.1	0.58	—	—
3. epi-lactose	unknown	10.0	0.95	—	—
4. lactulose	40	10.5	1.00	1.1	0.3%
5. lactose	4.8	12.7	1.21	2.9	—

Sample:
Inj.: 20µL resolution standard
Solvent: acetonitrile:water (50:50)

Column: Pinnacle® II Amino
Cat. #: 9217365
Dimensions: 150mm x 4.6mm
Particle size: 3µm
Pore size: 110Å

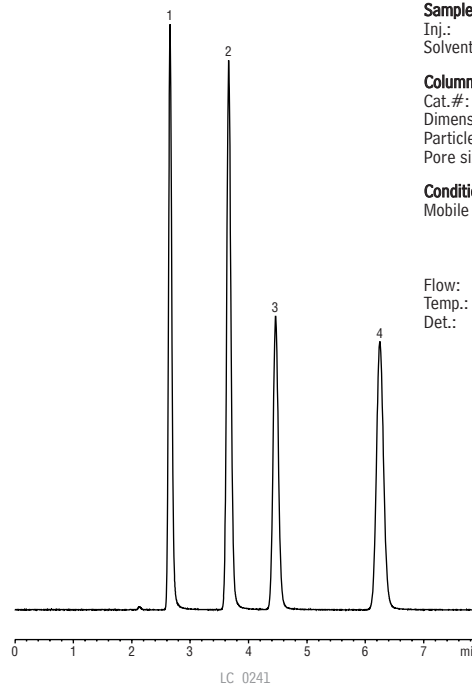
Conditions:
Mobile phase: 10mM sodium phosphate monobasic in water, pH 4.8: acetonitrile (22:78, v/v)
Flow: 1.3mL/min.
Temp.: 40°C
Det.: refractive index @ 40°C



Xanthines on Pinnacle® DB C18

Sample:
Inj.: 2µL
Solvent: mobile phase
Column: Pinnacle® DB C18
Cat. #: 9414565
Dimensions: 150mm x 4.6mm
Particle size: 5µm
Pore size: 140Å

Conditions:
Mobile phase: 20mM KH₂PO₄, pH 3.0: acetonitrile (90:10 v/v)
Flow: 1.0mL/min.
Temp.: 27°C
Det.: UV @ 254nm



Peak List:	Conc. (µg/mL)
1. theobromine	225
2. theophylline	418
3. β-hydroxyethyltheophylline	418
4. caffeine	400

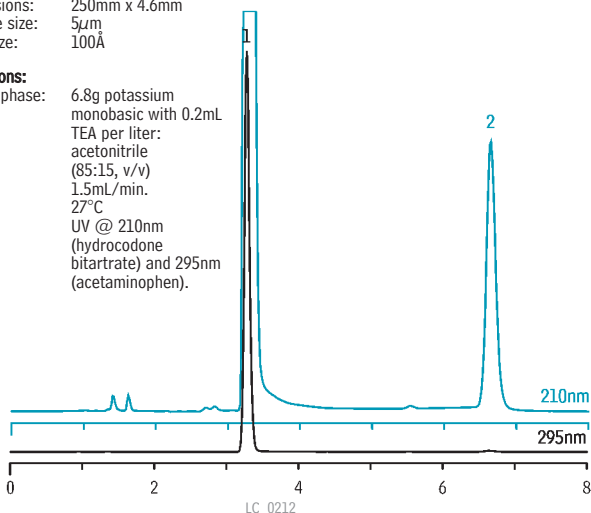
Admixtures: Hydrocodone Bitartrate/Acetaminophen by USP 25 on Ultra C18

Peak List:	Conc. (µg/mL)	Ret. Time (min.)	RRT	Tailing	Resolution	Inj. % RSD (n = 5)
1. acetaminophen	0.76	3.304	1.0	1.1	—	1.1
2. hydrocodone bitartrate	0.0076	6.664	2.0	1.1	17.0	0.9

Sample:
Inj.: 25µL
Sample: 500mg acetaminophen with 5mg hydrocodone bitartrate (tablet)
Solvent: mobile phase

Column: Ultra C18
Cat. #: 9174575
Dimensions: 250mm x 4.6mm
Particle size: 5µm
Pore size: 100Å

Conditions:
Mobile phase: 6.8g potassium monobasic with 0.2mL TEA per liter: acetonitrile (85:15, v/v)
Flow: 1.5mL/min.
Temp.: 27°C
Det.: UV @ 210nm (hydrocodone bitartrate) and 295nm (acetaminophen).



Admixtures: Expectorant/Antitussive Guaifenesin and Narcotic Analgesic Codeine on Ultra Phenyl

Peak List:	Conc. (µg/mL)
1. codeine	825
2. guaifenesin	375

Sample:
Inj.: 5µL
Solvent: methanol:water (50:50)

Column: Ultra Phenyl
Cat. #: 9105565
Dimensions: 150mm x 4.6mm
Particle size: 5µm
Pore size: 100Å

Conditions:
Mobile phase: 10mM ammonium formate, pH 2.5: acetonitrile (80:20, v/v)
Flow rate: 1.2mL/min.
Temp.: 25°C
Det.: UV @ 280nm

