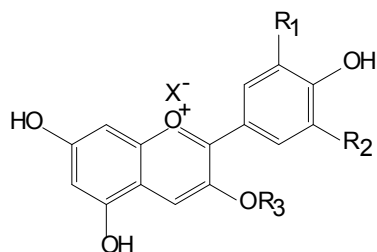
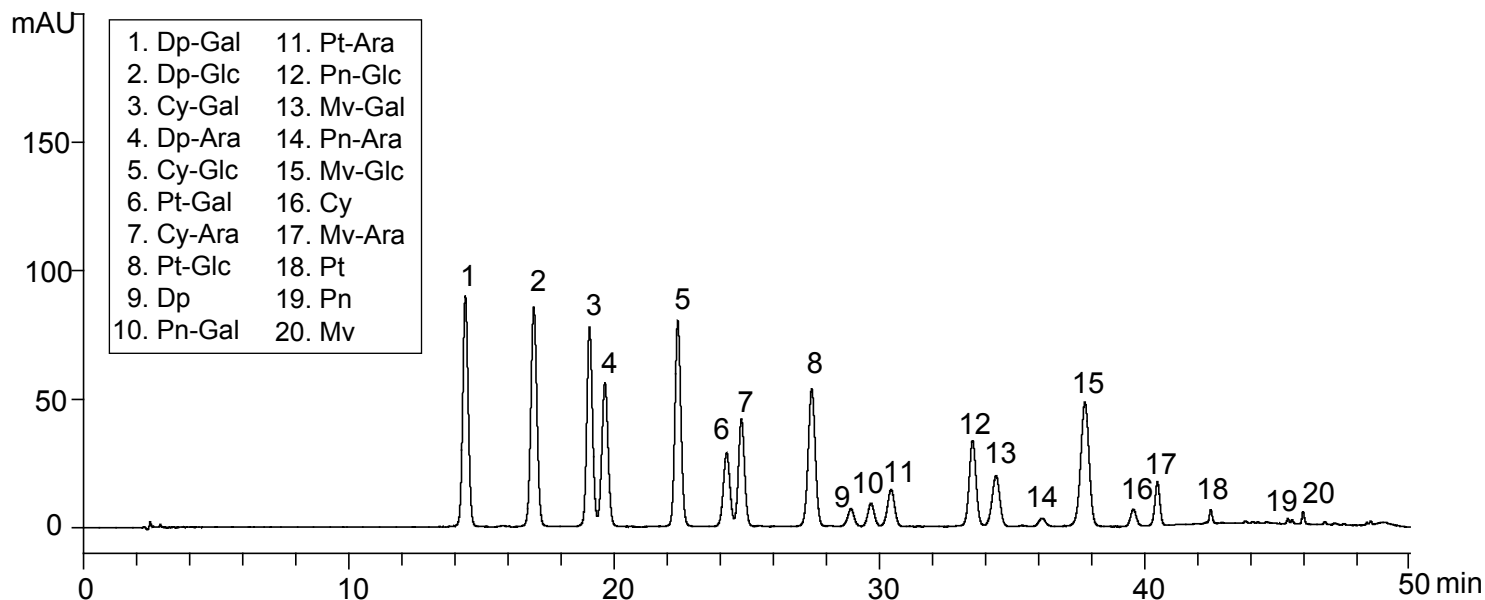


ビルベリー中のアントシアニン (イタリア薬局方11改正条件)  
Anthocyanins in bilberry (The Italian Pharmacopoeia 11th Edition) Q090216A



Compound	(abbr.)	R1	R2	R3	Peak No.
Delphinidin	(Dp)	OH	OH	H	9
Cyanidin	(Cy)	OH	H	H	16
Petunidin	(Pt)	OCH <sub>3</sub>	OH	H	18
Peonidin	(Pn)	OCH <sub>3</sub>	H	H	19
Malvidin	(Mv)	OCH <sub>3</sub>	OCH <sub>3</sub>	H	20
Delphinidin-3-O-Galactoside	(Dp-Gal)	OH	OH	Galactose	1
Delphinidin-3-O-Glucoside	(Dp-Glc)	OH	OH	Glucose	2
Delphinidin-3-O-Arabinoside	(Dp-Ara)	OH	OH	Arabinose	4
Cyanidin-3-O-Galactoside	(Cy-Gal)	OH	H	Galactose	3
Cyanidin-3-O-Glucoside	(Cy-Glc)	OH	H	Glucose	5
Cyanidin-3-O-Arabinoside	(Cy-Ara)	OH	H	Arabinose	7
Petunidin-3-O-Galactoside	(Pt-Gal)	OCH <sub>3</sub>	OH	Galactose	6
Petunidin-3-O-Glucoside	(Pt-Glc)	OCH <sub>3</sub>	OH	Glucose	8
Petunidin-3-O-Arabinoside	(Pt-Ara)	OCH <sub>3</sub>	OH	Arabinose	11
Peonidin-3-O-Galactoside	(Pn-Gal)	OCH <sub>3</sub>	H	Galactose	10
Peonidin-3-O-Glucoside	(Pn-Glc)	OCH <sub>3</sub>	H	Glucose	12
Peonidin-3-O-Arabinoside	(Pn-Ara)	OCH <sub>3</sub>	H	Arabinose	14
Malvidin-3-O-Galactoside	(Mv-Gal)	OCH <sub>3</sub>	OCH <sub>3</sub>	Galactose	13
Malvidin-3-O-Glucoside	(Mv-Glc)	OCH <sub>3</sub>	OCH <sub>3</sub>	Glucose	15
Malvidin-3-O-Arabinoside	(Mv-Ara)	OCH <sub>3</sub>	OCH <sub>3</sub>	Arabinose	17

Column : YMC-Pack Pro C18 RS (5 μm, 8 nm)  
250 X 4.6 mmI.D.

Eluent : A) water/HCOOH (90/10)  
B) acetonitrile/methanol/water/HCOOH (22.5/22.5/40/10)  
7-35%B (0-35 min), 35-65%B (35-45 min), 65-100%B (45-46 min),  
100%B (46-50 min)

Flow rate : 1.0 mL/min

Temperature : 30 °C

Detection : VIS at 535 nm

Injection : 10 μL

Sample : commercial bilberry powder (1.25 mg/mL)