

6. Karakterisasi HPLC

INVOICE

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No. 27b/03/2019/LAB KIM/FSM/UKSW
Tanggal Terima: 27 Maret 2019
Jenis Sampel : Larutan Ekstrak Kubis Ungu
Analisis : Kadar Anthosianidin
Analisis : Lutfiyono, S. Si
Kurs : Rp

Nama Pelanggan : Wafi (UII)

Parameter KodeSampel	BiayaUji (Rp)	Hasil		
		Kadar Delfinidin (µg/ml)	Kadar Sianidin (µg/ml)	Kadar Pelargonidin (µg/ml)
Kubis Ungu KFS	300.000	21.280	-	40.517
Kubis Ungu KNF	300.000	39.418	-	25.475
Total	600.000			

VALIDASI METODA (METHOD VALIDATION)

Parameter	Delfinidin	Sianidin	Pelargonidin
Kurva kalibrasi	$y = 4795.x - 3407.$ y=luas area puncak (mAU.Mnt), x= Konsentrasi (µg/ml)	$y = 131.2x + 10039$ y=luas area puncak (mAU.Mnt), x= Konsentrasi (µg/ml)	$y = 3879.x + 10936$ y=luas area puncak (mAU.Mnt), x= Konsentrasi (µg/ml)
Linearitas (r ²)	0.999	0.999	0.998
LOD (µg/ml)	3.91	4.24	5.68
LOQ (µg/ml)	13.03	14.12	18.93
Akurasi (% recovery)	97.8-102.1	98.10-102.5	97.6-101.9
Presi (% RSD)	1.66	1.77	1.39

Salatiga, 8 April 2019

Kepala Laboratorium  Bendahara 

Cucun Alep Riyanto, S.Pd., M.Sc. Sudaryanti, AMD

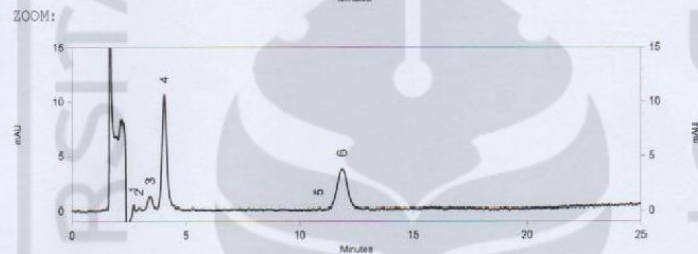
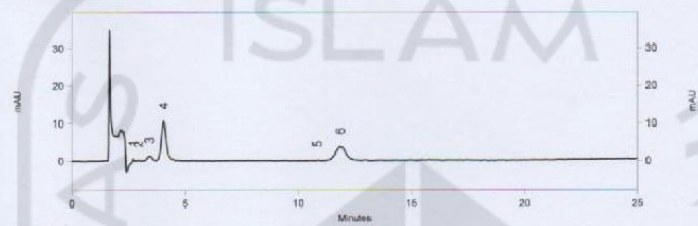


Sampel	Area (mAU.mnt)			Konsentrasi Uji ($\mu\text{g/ml}$)			Fp	Konsentrasi Sampel ($\mu\text{g/ml}$)		
	Delfinidin	Sianidin	Pelargonidin	Delfinidin	Sianidin	Pelargonidin		Delfinidin	Sianidin	Pelargonidin
Kubis Ungu KFS	98629		168101	21,280		40,517	1	21,280		40,517
Kubis Ungu KNF	185601		109755	39,418		25,475	1	39,418		25,475

Keterangan :
Fp = Faktor pemekatan
Kurva Kalibrasi
Delfinidin $y = 4795 \cdot x - 3407$ $R^2 = 0.999$
Sianidin $y = 131.2 \cdot x + 10039$ $R^2 = 0.999$
Pelargonidin $y = 3879 \cdot x + 10936$ $R^2 = 0.998$



Method name : D:\ChromGate\Project\ANALISA\METODA\ANTHOSIANIN\Kolom
 GJ96\Modifikasi Annika Nyman_HCOOH 1%.met
 Sampel ID : KNF_2
 Run time : 4/4/2019 12:07:12 PM
 Analysis time : 4/4/2019 4:39:57 PM
 Column : Vertex, Eurosphere 100-5 C18, 150 x 4.6 mm (SN:GJ96)
 Mobile phase : 1% Formic Acid : Acetonitril (85:15) isocratic
 Volume flowrate : 1 ml/min
 Temperature : 30 C
 Injection Volume : 20ml
 Detector : UV detector 2500, 520nm
 Operator : luty

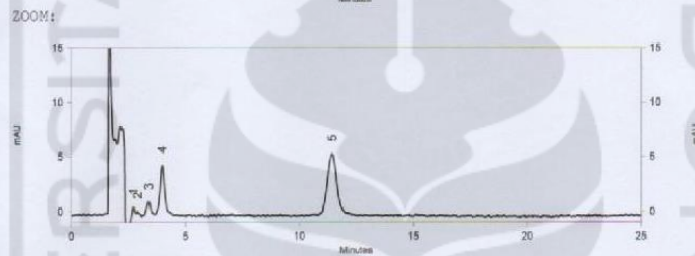
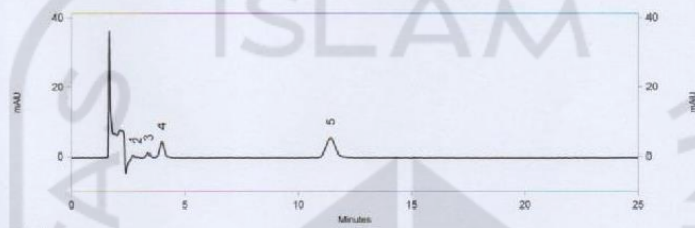


UV Detector 2500

Results

Pk #	Name	Retention Time	Area
4	Delphinidin	4.050	185601
6	Cyanidin		
6	Pelargonidin	11.867	109755
Totals			295356

Method name : D:\ChromGate\Project\ANALISA\METODA\ANTHOSIANIN\Kolom
 GJ96\Modifikasi Annika Nyman_HCOOH 1%.met
 Sampel ID : KFS
 Run time : 4/4/2019 11:40:20 AM
 Analysis time : 4/4/2019 4:39:33 PM
 Column : Vertex, Eurosphere 100-5 C18, 150 x 4.6 mm (SN:GJ96)
 Mobile phase : 1% Formic Acid : Acetonitril (85:15) isocratic
 Volume flowrate : 1 ml/min
 Temperature : 30 C
 Injection Volume : 20ml
 Detector : UV detector 2500, 520nm
 Operator : luty



UV Detector 2500

Results

Pk #	Name	Retention Time	Area
4	Delphinidin	3.983	98629
5	Cyanidin	11.433	168101
Totals			266730

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