

XÁC ĐỊNH HÀM LƯỢNG FLAVONOID TỔNG

I. Thông tin chung

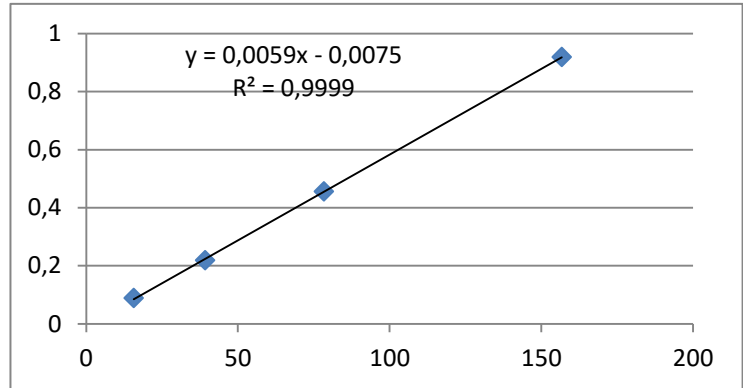
Người thực hiện: Trần Hùng Sơn
 Ngày thực hiện: 09.01.2021
 Phương pháp thử: NIFC.05.M.139 (UV-VIS)
 Thiết bị: NIFC.05.E.0611

II. Chuẩn bị chuẩn

Tên chuẩn: Quercetin
 Nồng độ chuẩn: 784 ppm
 Ngày pha: 09.01.2021

III. Kết quả phân tích

STD	Quercetin		
C (ppm)	Abs	C' (ppm)	Bias
15,68	0,089	16,3	-4,19
39,2	0,219	38,4	2,16
78,4	0,456	78,5	-0,11
156,8	0,919	156,9	-0,06
a =	0,005905		
b =	-0,007462		



MSM	m (g)	V (mL)	K	Abs1	Abs2	Δ Abs	C (ppm)	HL (mg/100g)	TB
T03	10,3613	100	1	0,237	0,784	0,547	93,90	90,63	90,78
	10,6236	100	1	0,258	0,815	0,557	95,59	89,98	
	10,6236	100	1	0,255	0,823	0,568	97,46	91,74	
T05	10,4082	100	1	0,257	0,692	0,435	74,93	71,99	71,36
	10,4994	100	1	0,256	0,686	0,430	74,09	70,56	
	10,4994	100	1	0,258	0,694	0,436	75,10	71,53	
WT	10,7316	100	1	0,228	0,473	0,245	42,76	39,84	40,85
	10,2992	100	1	0,203	0,446	0,243	42,42	41,18	
	10,2992	100	1	0,204	0,449	0,245	42,76	41,51	
T01	10,3533	100	1	0,236	0,652	0,416	71,72	69,27	69,12
	10,5585	100	1	0,255	0,676	0,421	72,56	68,72	
	10,5585	100	1	0,258	0,683	0,425	73,24	69,37	
T014	10,2449	100	1	0,264	0,802	0,538	92,38	90,17	90,04
	10,7100	100	1	0,25	0,812	0,562	96,44	90,05	
	10,7100	100	1	0,255	0,816	0,561	96,27	89,89	

Ngày tháng năm
 Phụ trách khoa nghiên cứu và phát triển

Mẫu	HL
WT	39,84
	41,18
	41,51
T01	69,27
	68,72
	69,37
T03	90,63
	89,98
	91,74
T05	71,99
	70,56
	71,53
T014	90,17
	90,05
	89,89

Hamluong

Subset for alpha = 0.001

Fla	N	1	2	3
Duncan ^a	1	3	40,84333	
	2	3	69,12000	
	4	3	71,36000	
	5	3		90,03667
	3	3		90,78333
	Sig.		1,000	,002
				,203

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

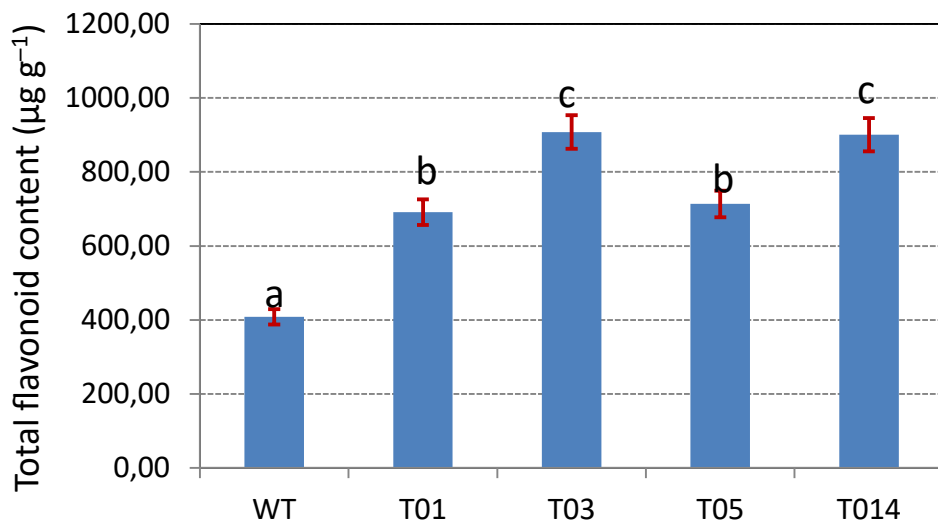
Descriptives

Fla	Statistic	Std. Error
Hamluong 1	Mean	40,84333
	95% Lower Bound	38,64626
	Confidence Upper Bound	43,04040
	Interval for 5% Trimmed Mean	
	Median	41,18000
	Variance	,782
	Std. Deviation	,884440
	Minimum	39,840
	Maximum	41,510
	Range	1,670
	Interquartile Range	
	Kurtosis	
	2	Mean
95% Lower Bound		68,25055
Confidence Upper Bound		69,98945
Interval for 5% Trimmed Mean		
Median		69,27000
Variance		,123
Std. Deviation		,350000
Minimum		68,720
Maximum		69,370
Range		,650
Interquartile Range		
Skewness		-1,574
Kurtosis		1,225
3	Mean	90,78333
	95% Lower Bound	88,57254
	Confidence Upper Bound	92,99412
	Interval for 5% Trimmed Mean	
	Median	90,63000
	Variance	,792
	Std. Deviation	,889963

	Minimum	89,980	
	Maximum	91,740	
	Range	1,760	
	Interquartile Range		
	Skewness	,752	1,225
	Kurtosis		
4	Mean	71,36000	,421466
	95% Lower Bound	69,54658	
	Confidence Upper Bound	73,17342	
	Interval for 5% Trimmed Mean		
	Median	71,53000	
	Variance	,533	
	Std. Deviation	,730000	
	Minimum	70,560	
	Maximum	71,990	
	Range	1,430	
	Interquartile Range		
	Skewness	-,991	1,225
	Kurtosis		
5	Mean	90,03667	,081104
	95% Lower Bound	89,68771	
	Confidence Upper Bound	90,38563	
	Interval for 5% Trimmed Mean		
	Median	90,05000	
	Variance	,020	
	Std. Deviation	,140475	
	Minimum	89,890	
	Maximum	90,170	
	Range	,280	
	Interquartile Range		
	Skewness	-,423	1,225
	Kurtosis		

Table 1. Total flavonoid content of three transgenic *A. carmichaelii* lines T0-4, T0-6, and T0-13 and nontransgenic plants

WT	408,43
T01	691,20
T03	907,83
T05	713,60
T014	900,37



The non-transgenic and transgenic plants

RSD%	HL (đvt)
0,98	90,782
	mg/100g
1,02	71,363
	mg/100g
2,17	40,847
	mg/100g
0,50	69,119
	mg/100g
0,16	90,036
	mg/100g