

## Catechins Calculation

23-02-2020

**421-1437 421A200473**

<u>Components</u>	<u>Area Of</u> <u>Sample</u>	<u>Wt Of</u> <u>Sample</u> <u>(gms)</u>	<u>Area Of</u> <u>Ref</u>	<u>Wt Of</u> <u>Std</u> <u>(gms)</u>	<u>Purity</u> <u>Of Std</u> <u>(%)</u>	<u>%Component</u>
<b>EGC</b>	259218		220657		12.11	<b>13.69</b>
<b>CAFFEINE</b>	1522591		1732057		7.00	<b>5.92</b>
<b>CATECHIN</b>	43963		83800		1.40	<b>0.71</b>
<b>EC</b>	225561	<b>0.0555</b>	306178	<b>0.0534</b>	3.34	<b>2.37</b>
<b>EGCG</b>	1616970		5024671		40.75	<b>12.62</b>
<b>GCG</b>	75883		218021		1.76	<b>0.59</b>
<b>ECG</b>	446120		1759199		11.22	<b>2.74</b>

Polyphenols = **76.48** %

Catechins = **32.71**

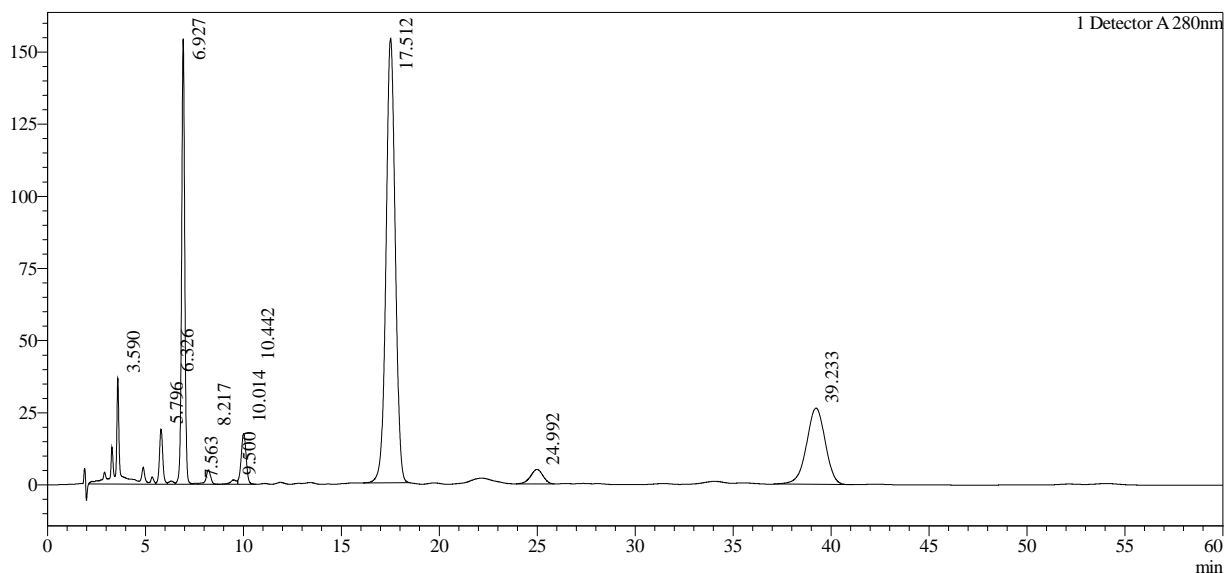
## Sample Information

Prominence-3

Acquired by : ROMARIO  
Sample Name : CATECHIN STD  
Sample ID : CATECHINS  
Injection Volume : 20 uL  
Vial Position : 1  
Data Filename : CATECHIN STD\_001.lcd  
Method Filename : CATECHINS.lcm  
Date Acquired : 02/23/2020 10:27:56 AM  
Data Processed : 02/23/2020 12:47:04 PM

## Chromatogram

mV



## Peak Table

Detector A 280nm

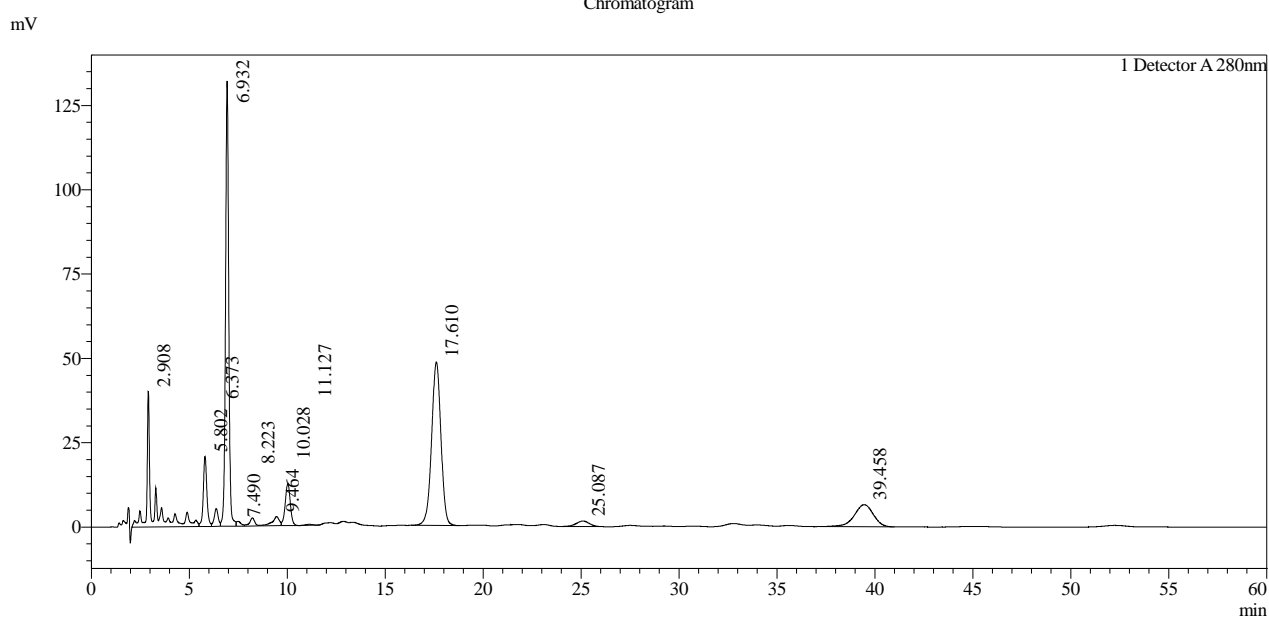
Peak#	Name	Ret. Time	Area	Height	Conc.	Tailing Factor	Theoretical PlatES
1		3.590	668671	36703	6.638	1.100	5041
2		5.796	220657	19019	2.191	1.093	5922
3		6.326	18666	1064	0.185	--	2222
4		6.927	1732057	154406	17.196	1.012	8657
5		7.563	4901	332	0.049	--	453
6		8.217	83800	5048	0.832	--	6624
7		9.500	35251	1523	0.350	--	2911
8		10.014	306178	17558	3.040	--	7541
9		10.442	659	145	0.007	--	--
10		17.512	5024671	154010	49.884	1.018	6719
11		24.992	218021	4984	2.164	0.938	7305
12		39.233	1759199	26431	17.465	0.963	8111
Total			10072732	421222			

## Sample Information

Prominence-3

Acquired by : ROMARIO  
Sample Name : 421-1437 421k200473  
Sample ID : CATECHINS  
Injection Volume : 20 uL  
Vial Position :2  
Data Filename : 421-1437 421A200473\_002.lcd  
Method Filename : CATECHINS.lcm  
Date Acquired : 02/23/2020 1:34:13 PM  
Data Processed : 02/23/2020 2:50:55 PM

## Chromatogram



## Peak Table

Detector A 280nm

Peak#	Name	Ret. Time	Area	Height	Conc.	Tailing Factor	Theoretical PlatES
1		2.908	698333	40226	13.795	1.235	3724
2		5.802	259218	20746	5.121	1.066	5406
3		6.373	75371	5283	1.489	--	4597
4		6.932	1522591	132039	30.077	1.016	8465
5		7.490	22098	1394	0.437	--	524
6		8.223	43963	2429	0.868	--	5812
7		9.464	70123	2742	1.385	--	4489
8		10.028	225561	12414	4.456	--	7150
9		11.127	6092	273	0.120	0.828	4351
10		17.610	1616970	48502	31.941	0.986	6582
11		25.087	75883	1641	1.499	0.996	6754
12		39.458	446120	6562	8.813	0.910	8082
Total			5062324	274251			