

Lab sheet #7**-Estimation of Total phenolic content in different plants-****Method:**

- In a clean test tube add:

Tube	Catechol standard (5mg/100ml)	Sample (ml)	H ₂ O (ml)	Folin-Ciocalteu reagent (ml)	Na ₂ CO ₃ (ml)
Blank	--	--	4	0.5 ml	2 ml
1	0.2	--	3.8		
2	0.4	--	3.6		
3	0.6	--	3.4		
4	0.8	--	3.2		
5	1	--	3		
6	1.2	--	2.8		
7	1.4	--	2.6		
Black tea	--	0.1	3.9		
Green tea	--	0.1	3.9		

- Mix thoroughly and measure the absorbance at 650 nm against a reagent blank.
- Prepare a standard curve using different concentrations of catechol.

Results:

Tube	Absorbance at 650nm	Concentration (mg/dl)
1		
2		
3		
4		
5		
6		
7		
Black tea		
Green tea		