



The antioxidant activity of the extract was expressed as IC<sub>50</sub>. The IC<sub>50</sub> value was defined as the concentration (in µg/ml) of extract that inhibits the formation of DPPH radicals by 50%.

### 3. Result

**Table 1: Data shows % of antioxidant activity of methanol extract**

Standard			Sample		
Concentration	Absorbance at 517nm	%of activity	Concentration	Absorbance at 517nm	% of activity
2 µg/ml	0.673	39.36	50µg/ml	0.870	21.62
4µg/ml	0.479	56.84	100µg/ml	0.672	39.45
6µg/ml	0.282	74.59	150µg/ml	0.478	56.93
8µg/ml	0.159	85.67	200µg/ml	0.355	68.01
10µg/ml	0.074	93.33	250µg/ml	0.270	75.67

#### 3.1 DPPH radical scavenging activity or Anti oxidant activity

DPPH is a stable free radical at room temperature and accepts an electron or hydrogen radical to become a stable diamagnetic molecule. The reduction capability of the DPPH radical is determined by the decrease in its absorbance at 517 nm, induced by antioxidants. The absorption maximum of a stable DPPH radical in methanol was at 517 nm. The decrease in absorbance of DPPH radical caused by antioxidants, because of the reaction between antioxidant molecules and radical, progresses, which results in the scavenging of the radical by hydrogen donation. It is visually noticeable as a change in color from purple to yellow. Hence, DPPH is usually used as a substrate to evaluate the antioxidative activity.

### 4. Conclusion

Anti-oxidant screening of methanol extract showed moderate activity against DPPH (1,1-diphenyl-2-picrylhydrazyl) assay method.

### Acknowledgement

The authors are thankful to Sardar Patel College of pharmacy for providing the facilities to do the research work.

### References

1. Farooqui A.A., Sreeramu B. S. Cultivation and collection of medicinal and aromatic crops.
2. The Ayurvedic Pharmacopoeia of India part-I, Vol.1 by controller of publication civilines, New Delhi; 2001.
3. Lee SH. Antioxidative activity of browning reaction products isolated from storage-aged orange juice. *J. Agric. Food Chem* 1992; 40: 550-552.
4. Blois MS. Antioxidant determination by the use of a stable free radical. *Nature* 1958; 181:1199-1200.
5. Lai LS, Chous ST & Chao WW. Studies on the antioxidant activities of hsian-tsoo (*Mesona procumbens* Hemsl) leaf gum. *J. Agric. Food Che* 2001; 49: 963-968.
6. Soares JR, Dins TCP, Cunha AP, Ameida LM. Antioxidant activity of some extracts of *Thymus zygis*. *Free Rad. Res* 1997; 26:469-478.
7. Chang LW, Yen WJ, Huang SC, Duh P.D. Antioxidant activity of sesame coat. *Food Chem* 2002; 78: 347-354.
8. Rastogi RP, Mehrotra BN. Compendium of Indian Medicinal Plant. 1983. Vol-3 New Delhi: National Institute of Science Communication.
9. Anonymous. Treatise of India Medicinal Plants; National Institute of Science Communication: New Delhi 1997, 277.