

## **Antioxidant activities and phenolics profiling of different parts of *Carica papaya* by LCMS-MS**

Vishwanath zunjar<sup>1</sup>, D Mammen<sup>2</sup> and Bhavna Trivedi<sup>3</sup>

Department of Chemistry, Faculty of Science, Maharaja Sayajirao University of Baroda,  
Vadodara, Gujarat 390002, India.

### **Abstract**

This article deals with the comparison of the antioxidant activity of aqueous extracts of various parts of *Carica papaya* L. The evaluation of total phenolic content and total flavonoid content revealed high antioxidant potential of the seeds and fruits. The free radical-scavenging potential of the aqueous extracts indicated the seeds to have better DPPH-scavenging activity than fruits. The results were augmented by the FRAP activity as well. The phenolics present in the extracts were separated and identified as 5-hydroxy feruloyl quinic acid, acetyl p-coumaroyl quinic acid, quercetin-3-O-rhamnoside, syringic acid hexoside, 5-hydroxy caffeic quinic acid, peonidin-3-O-glucoside, sinapic acid-O-hexoside, cyaniding-3-O-glucose and methyl feruloyl glycoside by LCMS-MS technique.

**Keywords:** *Carica papaya* extracts; DPPH; FRAP; LCMS-MS; antioxidant activity..