



*Research Article*

# Characterization of *Clostridium* strains and analysis of organic acids production by HPLC

RAJASHEKAR UPPIN, GEETA SHIRNALLI AND RAJESH RAWAL

**ABSTRACT :** Based on the morphological, physiological characterization and utilization of different carbon sources, out of 47 isolates, the efficient 15 isolates were selected for detection of organic acids by High Performance Liquid Chromatography (HPLC). The highest production of butyric acid 3.49 mg/ml was found in CL 12(2) which was isolated from sugarcane rhizosphere soil where as standard strain *Clostridium acetobutylicum* ATCC 824 was produced 6.85 mg/ml of butyric acid.

**KEY WORDS :** Organic acids, HPLC, *Clostridium* strain

**How to cite this Article :** Uppin, Rajashekar, Shirnalli, Geeta and Rawal, Rajesh (2013). Characterization of *Clostridium* strains and analysis of organic acids production by HPLC. *Internat. J. Forestry & Crop Improv.*, 4 (2) : 84-86.

**Article Chronical :** Received : 04.11.2013; Revised : 15.11.2013; Accepted : 26.11.2013

## MEMBERS OF RESEARCH FORUM

**Address of the Correspondence :**

**RAJASHEKAR UPPIN**, AICRP on RES (Bioconversion Technology), M.A.R.S., University of Agricultural Sciences, DHARWAD (KARNATAKA) INDIA

**Address of the Coopted Authors :**

**GEETA SHIRNALLI AND REJESH RAWAL**, AICRP on RES (Bioconversion Technology), M.A.R.S., University of Agricultural Sciences, DHARWAD (KARNATAKA) INDIA