

## **Leaching of Lead and Cadmium from Glass Dinnerware**

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Heavy metals like lead and cadmium were found to leach out from food contact surface of opal glass dinnerware when treated with five food acids as a leaching solution. The leachates used were: acetic acid, tartaric acid, citric acid, lactic acid and ascorbic acid at three different concentrations 2%, 4%, and 8% (v/v). At room temperature, duration of leaching varied from 1h to 24h in each case. The amount of metals leached in individual acid was found to be maximum at the 4% acid concentration. Release of Pb and Cd was faster in first 2h leaching period. Maximum amount of Pb and Cd were leached in 4% acetic acid at room temperature.

**Key words** : *Atomic absorption spectroscopy, lead and cadmium, leaching, dinnerware.*