

Determination of Heavy Metals in Cosmetic Products [†]

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Abstract: Cosmetics are widely used in India by people of all ages in some shape or form. The presence of heavy metals in cosmetics poses a threat to both humans and the environment due to their well-known toxicological effects, as outlined by numerous studies. Even with the utmost care to avoid the addition of heavy metals, they still make their way into the formulation through raw materials in the form of impurities. This study aims to identify and determine the concentration of the heavy metals Hg, As, and Cd present in cosmetics sourced from the local markets in Delhi-NCR by ICP-MS and develop a quick method for the detection of Hg.

Keywords: mercury; ICP-MS; heavy metals; cosmetics.

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Conflicts of Interest

The authors declare no conflict of interest.