

Assessment of chromium(VI) release from 848 jewellery items by use of a diphenylcarbazide spot test - DTU Orbit (09/11/2017)

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We recently evaluated and validated a diphenylcarbazide(DPC)-based screening spot test that can detect the release of chromium(VI) ions (≥ 0.5 ppm) from various metallic items and leather goods (1). We then screened a selection of metal screws, leather shoes, and gloves, as well as 50 earrings, and identified chromium(VI) release from one earring. In the present study, we used the DPC spot test to assess chromium(VI) release in a much larger sample of jewellery items ($n=848$), 160 (19%) of which had previously be shown to contain chromium when analysed with X-ray fluorescence spectroscopy (2).

General information

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Authors: Bregnbak, D. (Ekstern), Johansen, J. D. (Ekstern), Hamann, D. (Ekstern), Hamann, C. R. (Ekstern), Hamann, C. (Ekstern), Spiewak, R. (Ekstern), Menné, T. (Ekstern), Zachariae, C. (Ekstern), Jellesen, M. S. (Intern), Thyssen, J. P. (Ekstern)

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