

Identification and quantification of preservative chemicals in common household products

Background literature

http://ec.europa.eu/food/fs/sc/scf/out182_en.pdf

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:31996L0045:EN:HTML>

Barr L, Metaxas G, Harbach CAJ, Savoy LA, Darbre PD. (2012) Measurement of paraben concentrations in human breast tissue at serial locations across the breast from axilla to sternum. *J Appl Toxicol.* 32, 219-232.

Byford JR, Shaw LE, Drew MG, Pope GS, Sauer MJ, Darbre PD. (2002) Oestrogenic activity of parabens in MCF7 human breast cancer cells, *Journal of Steroid Biochemistry and Molecular Biology* 80, 49-60.

Darbre PD, Byford JR, Shaw LE, Horton RA, Pope GS, Sauer MJ. (2002) Oestrogenic activity of isobutylparaben in vitro and in vivo. *J Appl Toxicol.* 22, 219-26.

Darbre PD. (2003) Underarm cosmetics and breast cancer. *J Appl Toxicol.* 23, 89-95.

Darbre PD, Byford JR, Shaw LE, Hall S, Coldham NG, Pope GS, Sauer MJ. (2003) Oestrogenic activity of benzylparaben. *J Appl Toxicol.* 23, 43-51.

Darbre PD, Aljarrah A, Miller WR, Coldham NG, Sauer MJ, Pope GS (2004). Concentrations of parabens in human breast tumors, *J Appl Toxicol* 24, 5-13.

Darbre P.D. (2005) Recorded quadrant incidence of female breast cancer in Great Britain suggests a disproportionate increase in the upper outer quadrant of the breast. *Anticancer Research* 25, 2543-2550.

Harvey PW, Darbre P. (2004) Endocrine disrupters and human health: Could oestrogenic chemicals in body care cosmetics adversely affect breast cancer incidence in women? A review of evidence and call for further research. *J Appl Toxicol* 24, 297-306.

Matsumura A, Ghosh A, Pope GS, Darbre PD (2005) Comparative study of oestrogenic properties of eight phytoestrogens in MCF7 human breast cancer cells. *J Steroid Biochem Molec Biol* 94, 431-443.

Pugazhendhi D, Pope GS, Darbre PD. (2005) Oestrogenic activity of *p*-hydroxybenzoic acid (common metabolite of paraben esters) and methylparaben in human breast cancer cell lines. *J Appl Toxicol* 25, 301-309.

Routledge EJ et al., (1998) Some alkyl hydroxy benzoate preservatives (parabens) are estrogenic. *Toxicology and Applied Pharmacology* 153, 12-19.

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