

DETERMINATION OF PERFLUOROCTANOATE (PFOA) ON PAPER SAMPLE

1.- SAMPLE DESCRIPTION:

- Paper sample EUROKOTE AUTOADHESIVO WS

2.- MANUFACTURED BY:

- SARRIOPAPEL, S.A.

3.- ASSAY LABORATORY:

- April 2007

Grup LEPAMAP, Universitat de Girona.

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4.- ASSAY DESCRIPTION:

First of all, it is necessary to do an extraction of solid sample in methanol, and after evaporate the extracted to 1 mL of volume, and internal standard is added ^{13}C -PFOA (Stadalius, 2006)*.

The analyses of PFOA in samples has been done it with a previous treatment of extracted sample by means of “flow injection analysis” and mass spectrometry in tandem, in electrospray negative ionization mode (FIA/ESI(-)-MS/MS).

* “A method for the low-level ($\text{ng}\cdot\text{g}^{-1}$) determination of perfluorooctanoate in paper and textile by liquid chromatography with tandem mass spectrometry” Stadalius, M., Journal of Chromatography A, 1123, 10-14 (2006).

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For the quantification, perfluorodecanoate marked with an isotope carbon-13 ($^{13}\text{C}_2$ -PFDA) is added as internal standard.

5.- RESULTS:

PFOA concentration (ppb or ng/mg)	LOD _{PFOA}
Not detectable	0,2 ppb

It can be concluded that paper sample analysed does not contain PFOA's.

This certification is emitted in Girona, May 10th, 2007

Service responsible



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Dr. Chemistry Science