

Link between exposure of fish (



An analytical method consisting in enzymatic deconjugation, solid phase extraction and purification, and gas chromatography/mass spectrometry analysis after derivatization was used in this study to quantify Polycyclic Aromatic Hydrocarbon (PAH) metabolites in the bile of fish. The method has been applied in a laboratory experiment studying the fate of pyrene in basin containing soles. This study has allowed the identification of 1-hydroxypyrene as the single metabolite in bile after enzymatic deconjugation. In a second time, 1-hydroxypyrene has been used as a biomarker of exposure in the case of the "Erika" oil spill. This biomonitoring was successful in demonstrating the exposure of juvenile soles to PAHs present in the "Erika" fuel oil.

Auteurs du document : Hélène Budzinski, Olivier Mazéas, Jacek Tronczynski, Yves Désaunay, Gilles Bocquené, Guy Claireaux

Obtenir le document : EDP Sciences

Mots clés : PAH metabolites, Fish, Gas chromatography-mass spectrometry

Thème (issu du Text Mining) : POLLUANTS, BIOCHIMIE - CHIMIE

Date : 2004-10-15

Format : text/xml

Source : <https://doi.org/10.1051/alr:2004040>

Langue : Anglais

Télécharger les documents : <https://www.alr-journal.org/10.1051/alr:2004040/pdf>

Permalien : <https://www.documentation.eauetbiodiversite.fr/notice/link-between-exposure-of-fish0>

[Evaluer cette notice:](#)