

## 2<sup>nd</sup> Interlaboratory Exercise on NSAIDs

The two matrices: wastewater treatment plant effluent and river water, were collected and transported to the laboratory on Friday, June 15th 2007, where upon they were filtered through 2.7 µm and 0.5 µm glass micro-fibre filters. Besides wastewater treatment plant effluent and river water, also distilled water was applied as interlaboratory exercise matrix. Some of the batches were spiked with NSAIDs. Afterwards all of the samples were homogenised and then sub sampled for homogeneity and stability testing. The samples were then transferred into 1 L polyethylene bottles (cca 900 mL of each sample) and frozen prior to shipment on dry ice.

Along with samples, NSAID standard mixture in Methanol will be sent:

ibuprofen: 42.80 mg L<sup>-1</sup>  
naproxen: 40.00 mg L<sup>-1</sup>  
ketoprofen: 56.40 mg L<sup>-1</sup>  
diclofenac: 42.80 mg L<sup>-1</sup>.

### Instructions

- Upon receiving the samples the following parameters should be measured and reported in the Final Report:

- date and hour of receiving the samples
- T of received samples
- pH of defrosted samples prior to SPE

- 0.45 µm filters should be used for sample filtration where filtration is required (6 samples marked in Table as “YES FILTRATION”). Applied filters (size and quality) should be reported in the Final Report. 3 samples (Table: “NO FILTRATION”) should be extracted without additional filtration.

SAMPLE CODE	FILTRATION
A1 Wastewater	YES
A2 Wastewater	YES
A3 Wastewater	<b>NO</b>
B1	YES
B2	YES
B3	<b>NO</b>
C1	YES
C2	YES
C3	<b>NO</b>



- SPE should be carried out within 48 h upon sample receiving (preferably until 22nd June, 2007) and the cartridges should be kept frozen until analysis. The exact day of extraction should be reported in the Final Report.
- Chromatographic analyses should be carried out within three months and the date reported in the Final Report.
- Reporting form will be sent together with Laboratory ID number to all participants in October 2007.
- Results deadline: 31th October 2007.
- Statistic evaluation: February 2008.