MIURA

ダイオフロック® DioFLOCK

Solid phase extraction for dioxins in water by flocculation

This material can be simply and efficiently extracted dioxins in water.

ODS	DioFLOCK
Sampling	
Add internal STD	
Filtration	Filtration, if necessary
Prepare ODS Conditioning and washing	Add DioFLOCK
Suction filtration (100mL/min) waste：30 min Environmental：3 hrs.	
	Suction filtration
Dry residues and ODS	Dry residue

Crude extract
By Soxhlet or Pressurized fluid extraction etc.

Japan Society for Environmental Chemistry The 10th Environmental Technique Prize

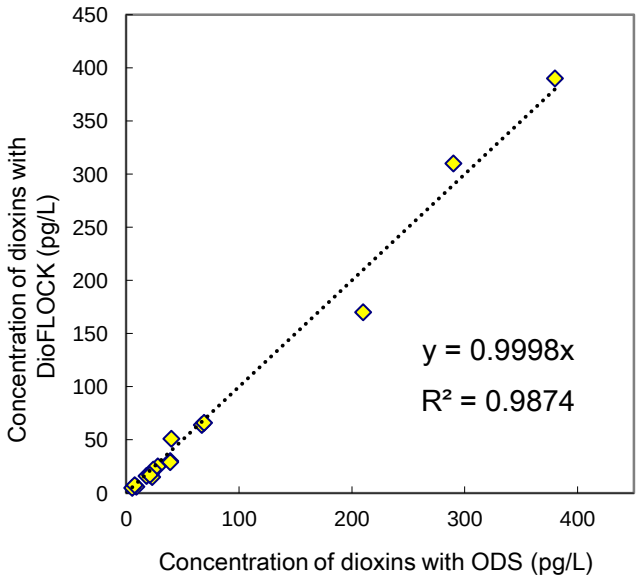
Nobuyasu SEIKE, Masazumi YAMASHITA, Muneki OHUCHI, Iori MIYAMOTO, Katsuhisa HONDA, Development of Sampling Method for Dioxins and Related Compounds in Water by Coagulant, Journal of Environmental Chemistry Vol.10, (2000) 841-848

Feature of DioFLOCK

High recovery with simple operation
Just add DioFLOCK into many kinds of water sample.

High-efficiency of analysis
No conditioning necessary, Labor-saving of extraction.

Increasing accuracy and quality
DioFLOCK is shipped to customers after confirming performance evaluation (blank and recovery test). It's capable to lessen anxiety on cross contamination.



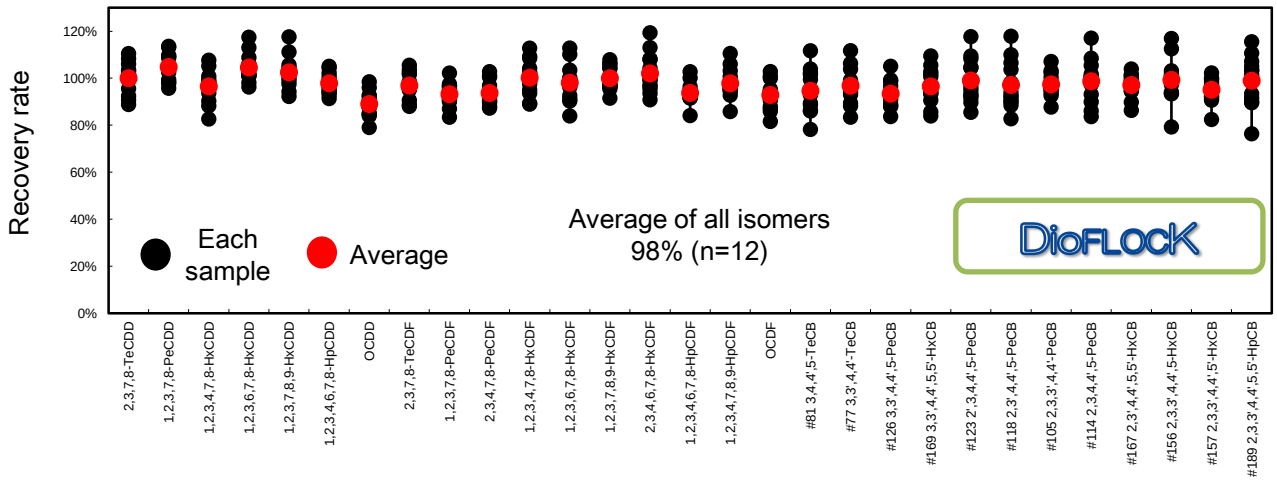
Comparison of ODS with DioFLOCK

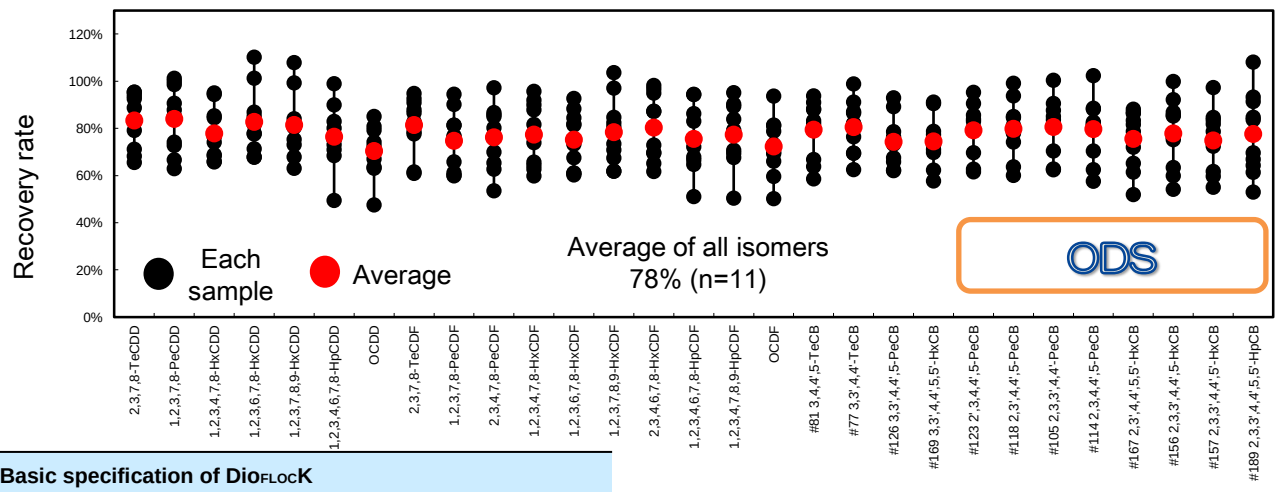
Comparison of conventional with new method

	MIURA method (DioFLOCK)	Conventional method (ODS)
Pre-wash for reducing dioxins blank level	No necessary	Require pre-wash before using
Control filtration flow rate	No necessary	Less than 100mL/min
pH condition of sample water	6 to 9	Acid condition is preferable (The breakthrough of ODS may occur in alkali condition)
Sample matrix	No need to especially remove	The test of sample volume is needed. (in case of breakthrough unconfirmed, below 5 L / ODS disc)
Cost performance	about half the cost of ODS method	More expensive

Recoveries of internal standard with DioFLocK and ODS

Recovery tests were conducted with real waste water and environmental water samples.





Basic specification of DioFLocK	
Component	Mixtures containing adsorbents
Condition of products	gray colored, fine powder
Outer packing of products	brown bottle (9mL)
Treatment volume	< 5L sample /bottle
Blank level in the products	
For waste water	< 0.2 pg TEQ / bottle
For environmental water	< 0.05 pg TEQ / bottle

Contact us

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"MIURA's Green Technology for the future"

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