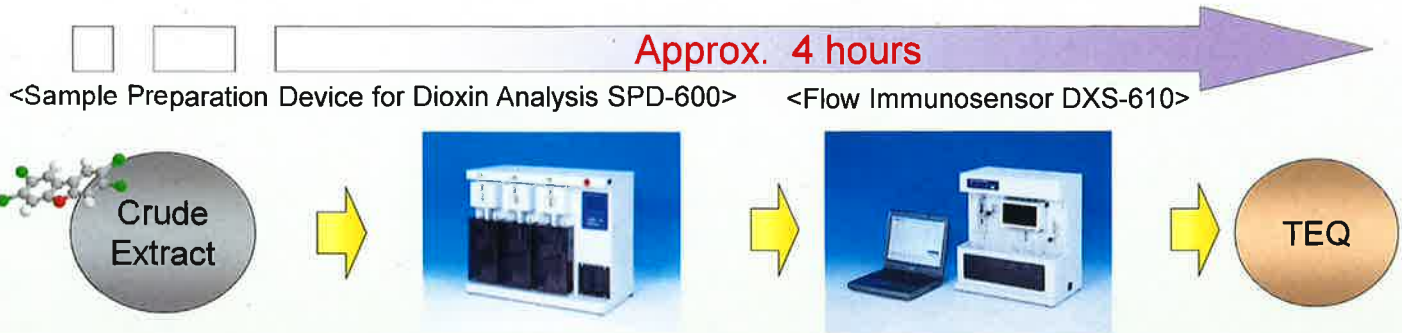


Simplified Dioxins Measurement System



Sample Preparation Device for Dioxin Analysis SPD-600

This sample Preparation Device is applied for Bioassay

Automatic preparation of sample for dioxin analysis, which used to require considerable time and expertise

Dioxins are automatically cleaned up, concentrated and dissolved into DMSO (Dimethyl sulfoxide), thus reducing working time and troubles dramatically.

Samples Sample of flue gas, fly ash and bottom ash can be cleaned up. Furthermore, it applies to those samples taken from soil and water, etc.

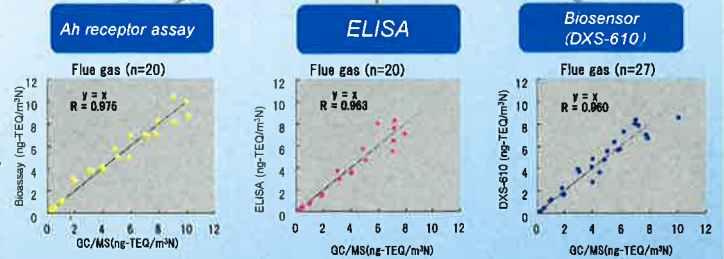
★This device was developed by a joint research of Ehime University and Miura Co., Ltd..



Sample Preparation Device SPD-600

Clean-up conforms to JIS K0311.

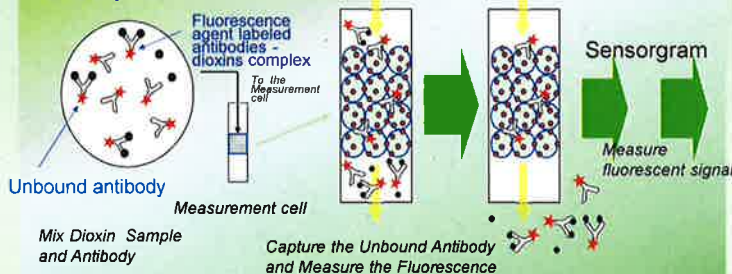
Various bioassay



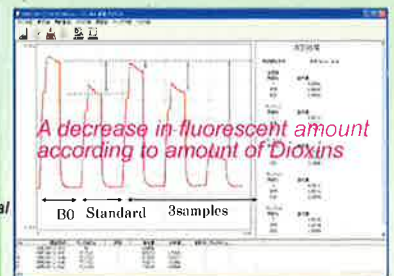
Flow Immunosensor DXS-610

This biosensor is based on kinetic exclusion assay (KinExA®) which is a flow injection system designed to measure the unbound antibodies after antibody and antigen are allowed to react.

<Principle of Measurement>



Fluorescent signal will change relative to the dioxins contents.



Simple operating procedure and high repeatability

Prepare sample and reagents and press [Start] button on your PC. The measurement and analysis will be underway automatically. All process are now automated without any human error involved. The RSD under 3% proves the reliable dioxin analysis.

Automated analysis of dioxin concentration in a short time

Takes within 9 minutes for analysis of dioxin concentration in the sample dissolved in DMSO(Dimethyl Sulfoxide).

Reproducibility of this System (SPD-600 and DXS-610)

N	SPD-600 Vol. ml	Assay Vol. ml	DXS-610			Equivalent Value ng/ml	TEQ-Value	
			#	Signal	Average CV %		ng-TEQ/m³N	Average CV %
1	0.778	5	1	6.956	6.824 1.49%	0.093	4.88	4.82 1.29%
			2	6.808				
			3	6.709				
2	0.784	5	1	7.025	6.860 1.76%	0.091	4.83	4.82 1.29%
			2	6.818				
			3	6.738				
3	0.761	5	1	6.964	6.832 1.59%	0.092	4.76	4.82 1.29%
			2	6.835				
			3	6.698				
B0		0	1	8.920	8.805 1.07%			
			2	8.806				
			3	8.689				

Sample; Flue gas (5.14ng-TEQ/m³N) (mixture of crude extracts of 100 samples)

★This product has been developed under the technical licenses with the application numbers for patent. (JP,34832476,B, JP(2000)389401, A., JP(2001)086444,A, JP,(2001)086455,A) from the Central Research Institute of Electric Power Industry and the Sapidyne Instrument Inc.