

CGS 3001.02

Automated *In-Line Surfactants* Sample Preparation (Dual Chloroform Extraction)

Anionic surfactants are complexed with the intensely colored methylene blue cation to form a chloroform extractable complex; the uncomplexed dye has an extremely small solubility in chloroform. The methylene blue-anionic complex is extracted into chloroform from the alkaline methylene blue solution to avoid the negative interference of proteinaceous material present in environmental samples. The chloroform phase is then back-extracted with an acidified methylene blue solution in order to remove the positive interference of those materials such as nitrate and chloride that form methylene blue complexes of low chloroform extractability. The absorbance of the final chloroform phase is measured at 650 nm.

Specifications

Method	Range	Matrix	MDL (mg/L)	%RSD
10-306-00-1-B	0.05 to 2 as SDS	Waters, Wastewaters	0.013	1.86
	0.1 to 2 as LAS		0.025	1.32

The following modules require that you already have a *QuikChem AE, 8000 or FIA+ Automated Ion Analyzer* in your laboratory

In-Line Cyanide Ordering Information

In-Line Sample Preparation Module:	A30113 (110V)
Includes UV lamp, gas-diffusion block and heater.	A30213 (220V)
Cyanide Manifold:	E10-204-00-2-A

In-Line TN/TP Ordering Information

In-Line Sample Preparation Module:	A30111 (110V)
Includes UV lamp, gas-diffusion block and heater.	A30211 (220V)
Total Phosphorus Manifold:	E10-115-01-3-A
Total Nitrogen Manifold:	E10-107-04-1-P

In-Line Phenol Ordering Information

Phenolic Manifold:	E10-210-00-2-A
Includes special valve.	
Sample Processing Module Frame:	84922
Detector Head:	84908

It is recommended that this manifold be mounted on a dedicated channel

In-Line Surfactants Ordering Information

Surfactants Manifold:	E10-306-00-1-B
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