

IN-LINE SAMPLE PREPARATION AND ANALYSIS

LACHAT
INSTRUMENTS
A Hach Company Brand

Let Lachat Do the Sample Prep with Automated In-Line Sample Preparation and Analysis Modules



Sample preparation can significantly decrease laboratory productivity. Even when the analysis is rapid, distilling, digesting or extracting a sample prior to analysis is extremely time-consuming.

In response to this problem, Lachat offers a suite of automated in-line sample preparation and analysis modules for Total and WAD cyanide, Total Nitrogen, Total Phosphorus, Total Volatile Phenolics, Sulfide and MBAS Surfactants. These modules can be added to the QuikChem® 8000 or 8500 Flow Injection Analyzers.

In-line sample preparation provides the following benefits:

- Automates distillations, digestions and solvent extractions
- Significantly improves productivity
- Reduces consumption of sample preparation reagents
- Reduces exposure to corrosive and toxic reagents with closed preparation system

- Increases accuracy and precision with controlled system conditions
- Provides simple operation—just place the sample in the automatic sampler and start the run

PRINCIPLE OF OPERATION

Both samples and standards are treated identically with automated preparation and colorimetric analysis.

Preparation and analysis of drinking, waste, and ground water samples can be achieved with greater speed than traditional techniques (90 seconds to 5 minutes per sample), with accurate low level analysis. For specific ranges, method compliance, and speed of analysis, please request the method documents.

IN-LINE SAMPLE PREPARATION AND ANALYSIS

Specifications*

Dimensions (H x W x D):

14 cm (6 in.) x 54 cm (21 in.) x 23 cm (9 in.)

Electrical:

60 Hz for 110 V, 50 Hz for 220 V

*Subject to change without notice.

Parameter Specifications

Parameter	Method	Range	Matrix	MDL	%RSD
Cyanide					
	10-204-00-3-A	5-500 µg/L CN	Waters (WAD)	3.5 µg/L	1.25
	10-204-00-2-C	2-100 µg/L CN	Waters (Total)	0.21 µg/L	1.06
	10-204-00-2-D	5-500 µg/L CN	Waters (Total)	0.51 µg/L	2.05
	10-204-00-2-G	2-100 µg/L CN	Waters (Total, pyridine free)	0.40 µg/L	1.40
Total Nitrogen					
	10-107-04-3-P	0.2-10 mg/L N	Waters	0.05 mg/L	1.56
	10-107-04-3-A	200-2000 µg/L N	Waters	5.6 µg/L	0.79
	10-107-04-3-B	0.5-30 mg/L N	Waters	0.10 mg/L	1.18
	31-107-04-3-A	0.1-1 mg/L N	Brackish Waters	0.005 mg/L	0.51
	31-107-04-3-B	500-5000 µg/L N	Brackish Waters	78 µg/L	0.47
Total Phosphorus					
	10-115-01-3-F	2-100 µg/L P	Waters	0.42 µg/L	0.60
	10-115-01-3-A	0.1-10 mg/L P	Waters	0.007 mg/L	0.4
	10-115-01-3-B	0.1-4 mg/L P	Waters	0.01 mg/L	0.54
	10-115-01-3-C	0.05-1 mg/L P	Waters	0.001 mg/L	0.49
	31-115-01-3-D	0.05-1 mg/L P	Brackish Waters	0.002 mg/L	0.56
	10-115-01-3-E	10-500 µg/L P	Waters	1.4 µg/L	1.32
Total Recoverable Phenolics					
	10-210-00-3-A	2-200 µg/L phenol	Waters	0.4 µg/L	3.06
	10-210-00-3-B	5-500 µg/L phenol	Waters	3.0 µg/L	1.00
MBAS Surfactant Chloroform Extraction					
	10-306-00-1-D (single)	0.01-1 mg/L as SDS	Waters	0.0024 US mg/L 0.0063 EMDL mg/L	0.505
	10-306-00-1-C (double)	0.01-1 mg/L as SDS 0.025-1 mg/L as LAS	Waters Waters	0.0029 mg/L 0.0078 mg/L	0.523 1.3
Total Sulfide					
	10-116-29-3-A	0.05 to 2 mg/L S	Waters	0.01 mg/L	0.93
	10-116-29-3-B	1 to 10 mg/L S	Waters	0.2 mg/L	2.3

For Technical Assistance, Price Information and Ordering

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Lit No. L016
F7X Printed in U.S.A.
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