

Lachat Applications Develops New 2-cm Flow Cell Methods

The Lachat Instruments Applications team has developed several methods utilizing a new 2-cm flow cell detector. These methods are able to reach lower detection limits than previously developed Lachat methods because of the increase in signal obtained through the larger flow cell, as well as the optimization of other variables during method development.

Thus far, the Lachat team has developed the following methods with the new 2-cm flow cell detector apparatus (part number 58025):

Method No.	Analyte	Range	MDL	Note
E10-115-01-1-W	Orthophosphate	0.25 - 20.0 µg P/L	0.046 µg P/L	For drinking, ground, and surface waters, and domestic and industrial wastes w/ low silicate levels. EPA Equivalent for NPDES reporting.
E10-115-01-1-Y	Orthophosphate	0.50 - 100.0 µg P/L	0.164 µg P/L	For drinking, ground, and surface waters, and domestic and industrial wastes w/ higher silicate levels. EPA Equivalent for NPDES reporting.
E31-115-01-1-W	Orthophosphate	0.25 - 20.0 µg P/L	0.046 µg P/L	For brackish, seawater, or non-saline sample matrices w/ low silicate levels. EPA Equivalent for NPDES reporting.
E31-115-01-1-Y	Orthophosphate	0.50 - 100.0 µg P/L	0.164 µg P/L	For brackish, seawater, or non-saline sample matrices w/ higher silicate levels. EPA Equivalent for NPDES reporting.
E31-114-27-1-E	Silicate	2.50 - 100 µg SiO ₂ /L	0.606 µg SiO ₂ /L	For brackish, seawater, drinking water, ground water, surface waters and domestic and industrial wastewaters. EPA Equivalent for NPDES reporting.
E31-107-04-1-F	Nitrate - Nitrite	0.5 - 14 µg N/L	0.08 µg N/L	For brackish, seawater, or non-saline sample matrices. EPA Equivalent for NPDES reporting.

A 2-cm flow cell method for Ammonia will also be available soon, completing the suite of 2-cm methods for Seawater analysis. Check back to the Lachat website (www.lachatinstruments.com) for updates on new 2-cm methods, as well as a new **2-cm Method Datapack**, containing detailed support data for these methods.

If you would like to see a specific method reach lower detection limits with the 2-cm flow cell, please contact Lachat Instruments for a feasibility analysis.

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