

# ADDISTA ANALYTICAL QUALITY ASSURANCE SYSTEM



## Water quality testing. How do you make sure your analytical results are always correct?

How often do you check whether your analytical results are correct? Sometimes? Once a month? Never? With Hach's Addista standard solutions you can easily verify that your water quality testing delivers correct results. Each Addista kit comes with one standard solution and two solutions with an unknown concentration to be used with Hach's LCK cuvette tests.

Using the standard solution you can easily verify your analytical approach including sampling, sample preparation, pipetting and photometric analysis. The two additional solutions contain unknown concentrations of the analyte and are designed to be used for a participation in a free round-robin test. After a successful participation in this ongoing external quality assurance program you will receive a certificate from Hach confirming the good quality of your analytical results. In case your results are out of specifications our experts will contact you to support you in identifying and solving the issue.

### Confidence in your results

Continuous documentation of Analytical Quality Assurance measures using the Addista system substantiates the correctness of your water testing results.

### Less complexity

Each Addista standard solution contains several parameters. This reduces the number of bottles with single parameter standards in your lab significantly.

### Less error sources

The Addista solutions are ready-to use with Hach's LCK cuvette test. Since there is no dilution needed this allows less hands-on-time and eliminates an additional error source when analysing standard solutions.

## Addista solutions and according LCK cuvette tests\*

<b>LCA700</b>	LCK304 Ammonium, 0.015-2.0 mg/L NH <sub>4</sub> -N LCK311 Chloride, 1-70 mg/L Cl LCK228 Potassium, 5-50 mg/L K LCK328 Potassium, 8-50 mg/L K LCK348 Phosphate (ortho), 0.5-5.0 mg/L PO <sub>4</sub> -P LCK1414 COD, 5-60 mg/L O <sub>2</sub> LCK238 Total Nitrogen, 5-40 mg/L TN <sub>b</sub>	<b>LCA707</b>	LCK341 Nitrite, 0.015-0.6 mg/L NO <sub>2</sub> -N LCK614 COD, 50-300 mg/L O <sub>2</sub> LCK348 Phosphate (total), 0.5-5.0 mg/L PO <sub>4</sub> -P
<b>LCA701</b>	LCK306 Lead, 0.1-2.0 mg/L Pb LCK321 Iron, 0.2-6.0 mg/L Fe LCK329 Copper, 0.1-8.0 mg/L Cu LCK337 Nickel, 0.1-6.0 mg/L Ni LCK353 Sulphate, 150-900 mg/L SO <sub>4</sub> LCK360 Zinc, 0.2-6.0 mg/L Zn	<b>LCA708</b>	LCK338 Total Nitrogen, 20-100 mg/L TN <sub>b</sub> LCK514 COD, 100-2000 mg/L O <sub>2</sub> LCK350 Phosphate (total), 2-20 mg/L PO <sub>4</sub> -P
<b>LCA702</b>	LCK301 Aluminium, 0.02-0.5 mg/L Al LCK308 Cadmium, 0.02-0.3 mg/L Cd LCK313 Chromium (VI), 0.03-1.0 mg/L Cr LCK313 Chromium (total), 0.03-1.0 mg/L Cr LCS313 Chromium trace, 0.005-0.25 mg/L Cr LCK353 Sulphate, 150-900 mg/L SO <sub>4</sub>	<b>LCA709</b>	LCK138 Total Nitrogen, 1-16 mg/L TN <sub>b</sub> LCK614 COD, 50-300 mg/L O <sub>2</sub> LCK349 Phosphate (total), 0.05-1.5 mg/L PO <sub>4</sub> -P LCK342 Nitrite, 0.6-6.0 mg/L NO <sub>2</sub> -N
<b>LCA703</b>	LCK049 Orthophosphate, 1.6-30 mg/L PO <sub>4</sub> -P LCK114 COD, 150-1000 mg/L O <sub>2</sub> LCI400 COD, 0-1000 mg/L O <sub>2</sub> LCK303 Ammonium, 2-47 mg/L NH <sub>4</sub> -N LCK311 Chloride, 1-70 mg/L Cl LCK339 Nitrate, 0.23-13.5 mg/L NO <sub>3</sub> -N LCK350 Phosphate (ortho), 2-20 mg/L PO <sub>4</sub> -P LCK353 Sulphate, 150-900 mg/L SO <sub>4</sub> LCK386 TOC, 30-300 mg/L C	<b>LCA720<sup>1)</sup></b>	LCI400 COD (ISO 15705), 0-1000 mg/L O <sub>2</sub> APC400 COD (ISO 15705), 0-1000 mg/L O <sub>2</sub> APC114 COD, 150-1000 mg/L O <sub>2</sub> APC303 Ammonium, 2-47 mg/L NH <sub>4</sub> -N APC338 Total Nitrogen, 20-100 mg/L TN <sub>b</sub> APC340 Nitrate, 5-35 mg/L NO <sub>3</sub> -N APC350 Phosphate, 2-20 mg/L PO <sub>4</sub> -P <b>Traceable to SRM from NIST.</b>
<b>LCA704</b>	LCK153 Sulphate, 40-150 mg/L SO <sub>4</sub> LCK305 Ammonium, 1-12 mg/L NH <sub>4</sub> -N LCK311 Chloride, 1-70 mg/L Cl LCK314 COD, 15-150 mg/L O <sub>2</sub> LCK340 Nitrate, 5-35 mg/L NO <sub>3</sub> -N LCK349 Phosphate (ortho), 0.05-1.5 mg/L PO <sub>4</sub> -P LCK385 TOC, 3-30 mg/L C	<b>LCA721<sup>1)</sup></b>	LCI500 COD (ISO 15705), 0-150 mg/L O <sub>2</sub> APC500 COD (ISO 15705), 0-150 mg/L O <sub>2</sub> APC314 COD, 15-150 mg/L O <sub>2</sub> APC304 Ammonium, 0.015-2.0 mg/L NH <sub>4</sub> -N APC138 Total Nitrogen, 5-40 mg/L TN <sub>b</sub> APC339 Nitrate, 0.23-13.5 mg/L NO <sub>3</sub> -N APC349 Phosphate, 0.05-1.5 mg/L PO <sub>4</sub> -P <b>Traceable to SRM from NIST.</b>
<b>LCA705</b>	LCK014 COD, 1000-10000 mg/L O <sub>2</sub> LCK302 Ammonium, 47-130 mg/L NH <sub>4</sub> -N LCK311 Chloride, 1-70 mg/L Cl LCK387 TOC, 300-3000 mg/L C	<b>LCA310<sup>1)</sup></b>	LCK310 Chlorine, 0.05-2.0 mg/L Cl <sub>2</sub>
<b>LCA706</b>	LCK521 Iron trace, 0.01-1.0 mg/L Fe LCK529 Copper trace, 0.01-1.0 mg/L Cu LCK537 Nickel trace, 0.05-1.0 mg/L Ni LCW032 Manganese, 0.02-5.0 mg/L Mn	<b>LCA333<sup>1)</sup></b>	LCK333 Nonionic Surfactants, 0.2-6.0 mg/L as TRITON x 100
		<b>LCA390<sup>1)</sup></b>	LCK390 AOX, 0.05-3.0 mg/L AOX
		<b>LCA555<sup>1)</sup></b>	LCK555 BOD, 4-1650 mg/L O <sub>2</sub>

Other Hach standard solutions are available covering the whole range of photometry, pH, conductivity and turbidity.

<sup>1)</sup> Standard only, without round robin test solutions

\*Subject to change without notice.