HYXO *Part of WEST Invest Group*

HACH FOTOMETRISET TESTIT

HACH
Be Right™

SAATAVILLA OLEVAT APPLIKAATIOT

- Sample specific blank
- Beer colour
- Chloride in concrete
- Chlorophyll
- Methanol in softdrinks
- Organic acids in fermenter samples
- Total cyanide using MicroDist
- Turbidity according EN ISO 7027
- Phenol index
- Organic acids with HT200S
- Determination of readily liberated sulfide
- Molybdenum low measuring range 1–10 mg/l with LCK330
- Ammonium after distillation
- Colour with DR6000
- Determination of FOS/TAC value in biogass reactors
- Temperature compensation for the LCK cuvette tests Ammonium (LCK303, 304 and 305)

LCK

PP

AccuVac

UUSIA TESTEJÄ VALIKOIMASSA

	MITTAUSALUE		DR6000	DR3900	DR1900	TUOTENRO
ORTO-FOSFAATTI PO_4-P						
LCK	0.01–0.5 mg/l	PO_4-P	•	•		LCK549
LCA (standardi)	0.2 mg/l	PO_4-P	•	•		LCA549
ANAMMOX-aktiivisuus (ANAEROBIC AMMONIUM OXIDATION)						
LCK	0–1 000 mAbs		•	•	•	LCK411.00
AMMONIUM						
LCK	100–1 800 mg/l	NH_4-N	•	•	•	LCK502
LCK	10–100 mg/l	NH_4-N	•	•	•	LCK503
LCK	0.5–5.0 mg/l	NH_4-N	•	•	•	LCK505
LCK	0.005–0.050 mg/l	NH_4-N	•	•	•	LCK504
NITRIITTI UHR						
LCK	2–90 mg/l	NO_2-N	•	•	•	LCK343
LATON / KOKONAISTYPPI						
LCK	100–250 mg/l	TNb	•	•	•	LCK438
COD						
LCK	70–250 mg/l	O_2	•	•	•	LCK1714
NITRAATTI						
LCK	15–150 mg/l	NO_3-N	•	•	•	LCK540

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
ALKALITEETTI + HAPPOKAPASITEETTI | ACID CAPACITY KS 4.3								
LCK	0.5–8.0 mmol/l	Hach method	•	•	•			LCK362
ALKOHOLI | ALCOHOL								
LCK	0.01–0.12 g/l	Alchohol oxidase	•	•	•			LCK300
ALUMIINI | ALUMINIUM								
LCK	0.02–0.5 mg/l	Chromazurol S	•	•	•			LCK301
PP	0.006–0.250 mg/l	Eriochrome cyanine R	•	•	•			2603700
PP	0.008–0.800 mg/l	Aluminon	•	•	•	•	•	2242000
AMMONIUM								
UUTUUS LCK	0.005–0.050 mg/l	Indophenol blue	•	•	•			LCK504
LCK	0.015–2 mg/l NH_4-N	Indophenol blue	•	•	•			LCK304
UUTUUS LCK	0.5–5 mg/l NH_4-N	Indophenol blue	•	•	•			LCK505
LCK	1–12 mg/l NH_4-N	Indophenol blue	•	•	•			LCK305
LCK	2–47 mg/l NH_4-N	Indophenol blue	•	•	•			LCK303
LCK	47–130 mg/l NH_4-N	Indophenol blue	•	•	•			LCK302
UUTUUS LCK	10–100 mg/l NH_4-N	Indophenol blue	•	•	•			LCK503
UUTUUS LCK	100–1 800 mg/l NH_4-N	Indophenol blue	•	•	•			LCK502
PP	0.01–0.50 mg/l NH_4-N	Salicylate	•	•	•	•	•	2668000
RS	0.02–2.50 mg/l NH_4-N	Nessler	•	•	•			2458200
TNT	0.02–2.50 mg/l NH_4-N	Salicylate				•		2604545
TNT	0.4–50.0 mg/l NH_4-N	Salicylate				•		2606945
AMMONIUM I QUATERNARY AMMONIUM COMPOUNDS								
PP	0.2–5.0 mg/l CTAB	Direct binary complex	•	•	•			2459200
ANAMMOX AKTIIVISUUS | ANAMMOX ACTIVITY (ANAEROBIC AMMONIUM OXIDATION)								
UUTUUS LCK	0–1 000 mAbs	Photometric heme detection	•	•	•			LCK411.00
BARIUM								
PP	2–100 mg/l	Turbidimetric	•	•	•	•		1206499
BENTSOTRIATSOLI, TOLYYLITRIATSOLI | BENZOTRIAZOLE OR TOLYLTRIAZOLE								
PP	1–16 mg/l BT 1–20 mg/l TT	UV photolysis	•	•	•	•		2141299
BOORI | BORON								
LCK	0.05–2.5 mg/l	Azomethine H	•	•				LCK307
PP	0.2–14.0 mg/l	Carmine method	•	•	•			1417099
PP	2–50 mg/l	Carmine method	•	•	•	•		1417099
BROMIDI | BROMINE								
PP	0.05–4.50 mg/l	DPD	•	•	•	•	•	2105669
AV	0.05–4.50 mg/l	DPD	•	•	•	•	•	2503025

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
COD (ISO 15705)								
LCK	0–1 000 mg/l	Chromosulphuric acid	•	•	•			LCI400
LCK	0–150 mg/l	Chromosulphuric acid	•	•	•			LCI500
COD / KEMIALLINEN HAPENKULUTUS								
LCK	7–70 mg/l	High chloride conc. (soveltuu esim. merivesille)	•	•	•			LCK1814
UUTUUS LCK	70–250 mg/l	High chloride conc. (soveltuu esim. merivesille)	•	•	•			LCK1714
UUTUUS LCK	250–1 000 mg/l	High chloride conc. (soveltuu esim. merivesille)	•	•	•			LCK1914
LCK	100–2 000 mg/l	High chloride conc.	•	•	•			LCK1014
LCK	0–1 000 mg/l	Mercury free	•	•	•			LCK214
LCK	5–60 mg/l	Chromosulphuric acid	•	•	•			LCK1414
LCK	15–150 mg/l	Chromosulphuric acid	•	•	•			LCK314
LCK	50–300 mg/l	Chromosulphuric acid	•	•	•			LCK614
LCK	100–600 mg/l	Chromosulphuric acid	•	•	•			LCK714
LCK	100–2 000 mg/l	Chromosulphuric acid	•	•	•			LCK514
LCK	150–1 000 mg/l	Chromosulphuric acid	•	•	•			LCK114
LCK	1 000–10 000 mg/l	Chromosulphuric acid	•	•	•			LCK014
LCK	5 000–60 000 mg/l	Chromosulphuric acid	•	•	•			LCK914
TNT	0–40 mg/l	Chromosulphuric acid				•		2415851
TNT	3–150 mg/l	Chromosulphuric acid				•		2125851
TNT	20–1 500 mg/l	Chromosulphuric acid				•		2125951
TNT	20–1 000 mg/l	Manganese (III), Reactor digestion				•		2623451
TNT	200–15 000 mg/l	Chromosulphuric acid				•		2415951
TNT	25–150 mg/l	Mercury free				•		2345852
TNT	0–1 500 mg/l	Mercury free				•		2345952
EPÄORGAANINEN KOKONAISTYPPI (esikäsittelyreagenssi) | TOTAL INORGANIC NITROGEN (pretreatment set)								
TNT	0.2–25.0 mg/l N	Titanium trichloride reduction						2604945
FENOLIT | PHENOLS								
LCK	0.05–5 mg/l	4-nitroaniline	•	•	•			LCK345
LCK	5–150 mg/l	4-aminoantipyrine	•	•	•			LCK346
PP	0.002–0.200 mg/l	4-aminoantipyrine	•	•	•			2243900
FILM FORMING AMINES								
RS	0.030–4.000 mg/l ODA/OLA 0.020–3.000 mg/l OLDA		•	•				3630000
FLUORIDI | FLUORIDE								
AV	0.02–2.00 mg/l	SPADNS	•	•	•	•		2506025
LCK	0.1–2.5 mg/l	SPADNS	•	•	•			LCK323
RS	0.02–2.00 mg/l	SPADNS	•	•	•	•		44449
FOSFONAATTI | PHOSPHONATE								
PP	0.02–2.50 mg/l 1.0–125.0 mg/l	Persulphate/ UV oxidation	•	•	•	•	•	2429700

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
FOSFORI | PHOSPHORUS								
KOKONAISFOSFORI | PHOSPHORUS (total)								
TNT	0.06–3.50 mg/l PO_4	PhosVer 3 with acid-persulphate digestion				•		2742645
TNT	1.0–100.0 mg/l PO_4	Molybdovanadate with acid-persulphate digestion				•		2767245
KOKONAISFOSFORI + ORTOFOSFAATTI | TOTAL + ORTHO PHOSPHORUS								
LCK	0.5–5 mg/l PO_4-P	Phosphormolybdenum blue	•	•	•			LCK348
LCK	0.05–1.5 mg/l PO_4-P	Phosphormolybdenum blue	•	•	•			LCK349
LCK	2–20 mg/l PO_4-P	Phosphormolybdenum blue	•	•	•			LCK350
LCK	10–100 mg/l PO_4-P	Phosphormolybdenum blue	•	•				LCK351
TNT	0.06– 5.00 mg/l PO_4	PhosVer 3 with acid hydrolysis				•		2742745
ORTOFOSFAATTI | ORTHO PHOSPHATE								
UUTUUS LCK	0.01–0.5 mg/l PO_4-P, 0.03–1.5 mg/l PO_4	Phosphormolybdenum blue	•	•				LCK549
LCK	1.6–30 mg/l PO_4-P 5–90 mg/l PO_4	Vanadate-molybdate	•	•	•			LCK049
AV	0.02–2.50 mg/l PO_4	PhosVer 3	•	•	•	•	•	2508025
PP	0.02–2.50 mg/l PO_4	PhosVer 3	•	•	•	•	•	2106069
RL	0.3–45.0 mg/l PO_4	Molybdovanadate	•	•	•			2076049
RL	19–3 000 µg/l PO_4	Ascorbic acid	•	•	•			2678600
RL	0.23–30.00 mg/l PO_4	Amino acid	•	•	•	•		2244100
RS	0.3–45.0 mg/l PO_4	Molybdovanadate	•	•	•	•		2076032
TNT	0.06–5.00 mg/l PO_4	PhosVer 3				•		2742545
TNT	1.0–100.0 mg/l PO_4	Molybdovanadate				•		2767345
FORMALDEHYDI | FORMALDEHYDE								
LCK	0.5–10 mg/l	Acetylacetone	•	•	•			LCK325
LCK	0.01–1 mg/l	Acetylacetone	•	•	•			LCS325
PP	3–500 µg/l	MBTH	•	•	•			2257700
LCK	0.5–10 mg/l	Acetylacetone ISO 12460	•	•	•			LCK425
LCK	0.05–3 mg/l	Acetylacetone ISO 12460	•	•	•			LCS425
HAPENSITOJA | OXYGEN BINDER								
PP	3–450 µg/l DEHA	Iron reduction	•	•	•	•		2446600
LCW	0.05–1.0 mg/l DEHA	Iron Reduction Method	•	•	•			LCW250
HOPEA | SILVER								
LCK	0.04–0.8 mg/l	Hach Method	•	•	•			LCK354
LCK	5–2 500 mg/l	Hach Method	•	•	•			LCK355
PP	0.02–0.700 mg/l	Colorimetric	•	•	•			2296600
HYDRATSIINI | HYDRAZINE								
LCW	0.01–2 mg/l	4-dimethylaminobenzaldehyde	•	•				LCW025
RS	4–600 µg/l	p-dimethylaminobenzaldehyde	•	•	•	•		179032

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
JODIDI | IODINE								
PP	0.07–7.00 mg/l	DPD	•	•	•			2105669
AV	0.07–7.00 mg/l	DPD	•	•	•			2503025
JODIDI | PHOTOMETRIC IODINE SAMPLE								
LCK	Iodine value > 0,2	MEBAK	•	•	•			LCK240
JÄÄNNÖSKOVUUS | HARDNESS (RESIDUAL) (Ca + Mg)								
LCK	0.02–0.6°dH	Metalphthalein	•	•	•			LCK427
KADMIUM | CADMIUM								
LCK	0.02–0.3 mg/l	Cadion	•	•	•			LCK308
KALIUM | POTASSIUM								
LCK	8–50 mg/l	Kalignost (± 5 mg/l)	•	•	•			LCK328
PP	0.1–700 mg/l	Tetraphenylborate	•	•	•	•		2459100
LCK	5–50 mg/l	Kalignost (± 1.5 mg/l)	•	•	•			LCK228
KARBONAATTI/HIILIDIOKSIDI | CARBONATE/CARBON DIOXIDE								
LCK	55–550 mg/l CO_2	pH indicator	•	•	•			LCK388
KATKEROT | BITTER UNITS								
LCK	≥ 2 BU	MEBAK		•				LCK241
KIINTOAINE | SUSPENDED SOLIDS								
	0–750 mg/l	Photometric	•	•	•	•		
KLOORI | CHLORINE								
KLOORIDIOKSIDI | CHLORINE DIOXIDE								
RS	0.01–1.00 mg/l ClO_2	Chlorophenol red	•	•	•			2242300
HPT	0.003–0.5 mg/l ClO_2	Amaranth	•	•	•			HPT240
PP	0.04–5.00 mg/l ClO_2	DPD/glycine	•	•	•	•	•	2770900
KLOORI / OTSONI | CHLORINE/OZONE								
LCW	0.03–0.4 mg/l Cl_2/O_3 0.1–1.5 mg/l Cl_2/O_3	DPD	•	•				LCW510
KOKONAISKLOORI | TOTAL CHLORINE								
AV	0.02–2.00 mg/l	DPD	•	•	•	•	•	2503025
PP	0.02–2.00 mg/l	DPD	•	•	•	•	•	2105669
PP	0.02–2.00 mg/l	DPD	•	•	•	•	•	2105628 (1 000 kpl/pkt)
PP	0.05–4.00 mg/l mg/l	DPD (medium range)			•	•	•	1406499
PP	0.1–10 mg/l	DPD (high range)	•	•		•	•	1406499
RL	0.02–2.00 mg/l	DPD	•	•	•			2557000
RL	2–500 µg/l	DPD (ultra low range)	•	•	•			2563000
TNT	0.09–5.00 mg/l	DPD				•		2105645
VAPAA KLOORI / KLOORIDIOKSIDI | CHLORINE (FREE) / CHLORINE DIOXIDE								
LCK	0.05–2.0 mg/l Cl_2 0.09–3.8 mg/l ClO_2	DPD	•	•	•			LCK410

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
VAPAA KLOORI | CHLORINE (FREE)								
PP	0.02–2.00 mg/l	DPD	•	•	•	•	•	2105569
PP	0.02–2.00 mg/l	DPD	•	•	•	•	•	2105528
AV	0.02–2.00 mg/l	DPD	•	•	•	•	•	2502025
PP	0.05–4.00 mg/l	DPD	•	•	•	•	•	1407099
PP	0.1–10 mg/l	DPD	•	•	•	•	•	1407099
RL	0.02–2.00 mg/l	DPD	•	•	•			2556900
VAPAA JA KOKONAISKLOORI / OTSONI / KLOORIDIOKSIDI | CHLORINE/OZONE / CHLORINE DIOXIDE								
LCK	0.05–2.0 mg/l Cl_2/O_3	DPD	•	•	•			LCK310
KLORIDI | CHLORIDE								
LCK	1–70 mg/l 70–1 000 mg/l	Iron(III)-thiocyanate	•	•	•			LCK311
RS	0.1–25.0 mg/l	Mercury thiocyanate	•	•	•			2319800
KOBOLTTI | COBALT								
PP/RS	0.01–2.00 mg/l	PAN	•	•	•			2651600
KOKONAISTYPPI | TOTAL NITROGEN (LATON)								
LCK	1–16 mg/l TN_b	Koroleff digestion	•	•	•			LCK138
LCK	5–40 mg/l TN_b	Koroleff digestion	•	•	•			LCK238
LCK	20–100 mg/l TN_b	Koroleff digestion	•	•	•			LCK338
UUTUUS LCK	100–250 mg/l TN_b	Koroleff digestion	•	•	•			LCK438
KOKONAISTYPPI | TOTAL NITROGEN								
TNT	0.5–25.0 mg/l N	Persulphate digestion				•		2672245
TNT	10–150 mg/l N	Persulphate digestion				•		2714100
KOVUUS | HARDNESS (Ca + Mg)								
LCK	1–20°dH	Metal phthalein	•	•	•			LCK327
RL	0.05–4.00 mg/l $CaCO_3$	Calmagite	•	•	•	•		2319900
RL	8–1 000 µg/l $CaCO_3$	Chlorophosphonazo	•	•	•			2603100
KROMI, Cr^{6+} | CHROMIUM, Cr^{6+}								
PP	0.01–0.700 mg/l	1,5-Diphenylcarbohydrazide	•	•	•	•		1271099
KROMI (KOKONAIS, Cr^{6+}, Cr^{3+}) | CHROMIUM (TOTAL, Cr^{6+}, Cr^{3+})								
LCK	0.005–0.25 mg/l	Diphenylcarbazide	•	•				LCS313
LCK	0.03–1.0 mg/l	Diphenylcarbazide	•	•	•			LCK313
KROMI (KOKONAIS) | CHROMIUM (TOTAL)								
PP	0.01–0.70 mg/l 0.01–0.60 mg/l KOLORIMETRIT	Hypobromite oxidation	•	•	•	•		2242500

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
KROMIKYLPY | CHROMIC ACID BATHS								
LCK	0.5–450 g/l CrO_3	Intrinsic bath colour	•	•	•			LCK213
KUPARI | COPPER								
LCK	0.01–1.0 mg/l	Bathocuproine disulphonic acid	•	•				LCK529
LCK	0.1–8.0 mg/l	Bathocuproine disulphonic acid	•	•	•			LCK329
AV	0.04–5.00 mg/l	Bicinchoninate	•	•	•	•		2504025
PP	0.04–5.00 mg/l	Bicinchoninate	•	•	•	•		2105869
PP	2–210 µg/l	Porphyrine	•	•	•	•		2603300
KUPARIKYLPY | COPPER BATHS (ACIDIC)								
LCK	2–100 g/l Cu	Intrinsic bath colour	•	•	•			LCK229
LIETTEEN AKTIIVISUUS | SLUDGE ACTIVITY								
LCK	5–200 µg Formazan (SA) 0–500 % Residual activity (RA)	TTC test, colorimetric	•	•	•			LCK318
LIUENNUT HAPPI | OXYGEN (dissolved)								
AV	0.3–15.0 mg/l	HRDO	•	•	•	•	•	2515025
AV	1.0–40.0 mg/l (UHR)	HRDO	•	•	•			2515025
AV	6–800 µg/l	Indigo carmine	•	•	•	•		2501025
LYIJY | LEAD								
LCK	0.1–2.0 mg/l	PAR	•	•	•			LCK306
RS	5–150 µg/l	Column extraction	•	•				2375000
MAGNESIUM | MAGNESIUM								
LCK	0.5–50 mg/l	Metal phthalein	•	•	•			LCK326
MANGAANI | MANGANESE								
LCW	0.2–5 mg/l 0.02–1 mg/l	Formaldoxime	•	•				LCW032
PP	0.1–20.0 mg/l	Periodate oxidation	•	•	•	•	•	2430000
PP	0.006–0.700 mg/l	PAN	•	•	•	•		2651700
LCW	0.005–0.5 mg/l	PAN	•	•				LCW532
LCW	0.005–0.7 mg/l	Cyanide-free TMB	•	•				LCW632
LCW	0.01–1.0 mg/l	Cyanide-free TMB			•			LCW632
MENTHOLI | MENTHOL (in distillate)								
LCK	0.5–15 mg/100 ml	p-Dimethylaminobenzaldehyde	•	•	•			LYW185
MOLYBDAATTI / MOLYBDEENI | MOLYBDATE/MOLYBDENUM								
PP	0.3–40.0 mg/l	Mercaptoacetic acid	•	•	•	•		2604100
PP	0.02–3.00 mg/l	Ternary complex	•	•	•	•	•	2449400
LCK	3–300 mg/l	Thioglycolic acid	•	•	•			LCK330
MONOKLOORIAMIINI | CHLORAMINE (MONO)								
TNT	0.1–10.0 mg/l Cl_2	Indophenol				•		2805145
PP	0.04–4.50 mg/l Cl_2	Indophenol	•	•	•	•	•	2802246

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
NIKKELI | NICKEL								
LCK	0.05–1.0 mg/l	Dimethylglyoxime	•	•				LCK537
LCK	0.1–6.0 mg/l	Dimethylglyoxime	•	•	•			LCK337
PP	0.02–1.80 mg/l	Heptoxime	•	•	•			2243500
PP	0.006–1.000 mg/l	PAN	•	•	•	•		2242600
PP	0.006–1.000 mg/l	PAN	•	•	•	•		2651600
NIKKELIKYLPY | NICKEL BATHS (acidic)								
LCK	5–120 g/l	Intrinsic bath colour	•	•	•			LCK237
NITRAATTI | NITRATE								
LCK	0.23–13.5 mg/l NO_3-N 1–60 mg/l NO_3	2.6-dimethylphenol	•	•	•			LCK339
LCK	5–35 mg/l NO_3-N 22–155 mg/l NO_3	2.6-dimethylphenol	•	•	•			LCK340
UUTUUS LCK	15–150 mg/l NO_3-N 66–664 mg/l NO_3	2.6-dimethylphenol	•	•	•			LCK540
PP	0.01–0.50 mg/l NO_3-N	Cadmium reduction	•	•	•	•		2429800
PP	0.1–30.0 mg/l NO_3-N	Cadmium reduction	•	•	•	•	•	2106169
TNT	0.2–30.0 mg/l NO_3-N	Chromotropic acid				•		2605345
NITRIITTI | NITRITE								
LCK	0.0015–0.03 mg/l NO_2-N 0.005–0.1 mg/l NO_2	Diazotization	•	•				LCK541
LCK	0.015–0.6 mg/l NO_2-N 0.05–2 mg/l NO_2	Diazotization	•	•	•			LCK341
LCK	0.6–6 mg/l NO_2-N 2–20 mg/l NO_2	Diazotization	•	•	•			LCK342
UUTUUS LCK	2–90 mg/l NO_2-N 7–295 mg/l NO_2	Diazotization	•	•	•			LCK343
PP	0.002–0.300 mg/l NO_2-N	Diazotization	•	•	•	•		2107169
PP	2–250 mg/l NO_2-N	Iron (II) sulphate	•	•	•	•		2107569
TNT	0.003–0.500 mg/l NO_2-N	Diazotization				•		2608345
ORGAANISET HAPOT, RASVAHAPOT | ORGANIC ACIDS, FATTY ACIDS								
LCK	50–2 500 mg/l acetic acid 75–3 600 mg/l butanoic acid	Esterification	•	•	•			LCK365
ORGAANISET HAPOT | ORGANIC ACIDS								
RS	27–2 800 mg/l	Esterification	•	•	•	•		2244700
OTSONI | OZONE								
AV	0.01–0.25 mg/l	Indigo	•	•	•	•	•	2516025
AV	0.01–0.75 mg/l	Indigo	•	•	•	•	•	2517025
AV	0.01–1.50 mg/l	Indigo	•	•	•	•		2518025
PERETIKKAHAPPO | PERACETIC ACID (PAA)								
RL	0.1–10.0 mg/l	DPD	•	•	•	•		1406499

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
PERMANGANAATTI-INDEKSI (CODMn) | PERMANGANATE INDEX								
LCK	0.5–10.0 mg/l O_2	ISO 8467	•	•	•			LCK394
	2–40 mg/l $KMnO_4$	ISO 8467	•	•	•			
pH								
RS	6.5–8.5 units	Phenol red			•	•	•	2657512
RAUTA | IRON								
AV	0.02–3.00 mg/l	FerroVer	•	•	•	•	•	2507025
LCK	0.2–6.0 mg/l	1.10-Phenanthroline	•	•	•			LCK321
LCW	0.01–1.0 mg/	1.10-Phenanthroline	•	•				LCK521
LCW	0.005–0.250 mg/l 0.05–2.00 mg/l	FerroZine	•	•				LCW021
PP	0.01–1.80 mg/l	FerroMo	•	•	•	•		2544800
PP	0.02–3.00 mg/l	FerroVer	•	•	•	•	•	2105769
PP	0.009–1.400 mg/l	FerroZine	•	•	•	•		230166
PP	0.012–1.800 mg/l	TPTZ	•	•	•	•	•	2608799
RL	0.009–1.400 mg/l	FerroZine	•	•	•	•		230149
RL	1–100 µg/l	FerroZine, kok. Fe	•	•				230149
RAUTA (II) | IRON (II)								
PP	0.02–3.00 mg/l	1.10-Phenanthroline	•	•	•	•		103769
RAUTA (II, III) | IRON (II, III)								
LCK	0.2–6.0 mg/l	1.10-Phenanthroline	•	•	•			LCK320
SILIKAATTI | SILICA								
LCW	0.01–0.8 mg/l SiO_2 0.005–0.4 mg/l Si	Molybdenum blue	•	•				LCW028
LCW	0.8–100 mg/l SiO_2 0.4–50 mg/l Si	Molybdenum blue	•	•	•			LCS028
PP	0.01–1.60 mg/l SiO_2	Heteropoly blue	•	•	•	•		2459300
PP	1–100 mg/l SiO_2 SPEKTROFOTOMETRIT 1–75 mg/l SiO_2 KOLORIMETRIT	Silicomolybdate	•	•	•	•		2429600
PP	3–1000 µg/l SiO_2	Heteropoly blue, liuos	•	•	•			2553500
RL	3–1000 µg/l SiO_2	Heteropoly blue, läpivirtauskyvetti	•	•	•			2678500
SINKKI | ZINC (trace)								
LCK	0.2–6.0 mg/l	PAR	•	•	•			LCK360
PP	0.01–3.00 mg/l	Zincon	•	•	•	•	•	2429300
LCK	0.02–0.8 mg/l	PAR	•	•	•			LCS360

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
SULFAATTI | SULPHATE								
LCK	40–150 mg/l	Barium sulphate	•	•	•			LCK153
LCK	150–900 mg/l	Barium sulphate	•	•	•			LCK353
PP	2–70 mg/l	SulfaVer 4	•	•	•			1206599
PP	2–7 000 mg/l	SulfaVer 4, turbidimetric	•	•	•	•		2106769
SULFIDI | SULPHIDE								
LCK	0.1–2.0 mg/l	Dimethyl-p-phenylenediamine	•	•	•			LCK653
RS	LR: 5–800 µg/l HR: 0.01–70 mg/l SPEKTROFOTOMETRIT 0.01–0.70 mg/l KOLORIMETRIT	Methylene blue	•	•	•	•		2244500
LCW	0.1–2.0 mg/l	Dimethyl-p-phenylenediamine	•	•				LCW053
SULFIITTI | SULPHITE								
LCW	0.1–5.0 mg/l	HACH Method	•	•				LCW054
HPT	0.1–5.0 mg/l	HACH method	•	•	•			HPT430
LCK	0.1–5.0 mg/l	HACH method	•	•	•			LCK654
SYANIDI (yleensä tislattava) | CYANIDE								
PP	0.002–0.240 mg/l	Pyridine-pyrazalone	•	•	•	•		2430200
SYANIDI (helposti vapautuva) | CYANIDE (easily liberatable)								
LCK	0.03–0.35 mg/l	HACH method	•	•	•			LCK319
SYANIDI (vapaa) | CYANIDE (free)								
LCK	0.01–0.6 mg/l	Barbituric acid-pyridine	•	•	•			LCK315
SYANUURIHAPPO | CYANURIC ACID								
PP	5–50 mg/l	Turbidity measurement	•	•	•	•		246066
TANNIINI + LIGNIINI | TANNIN + LIGNIN								
RS	0.1–9.0 mg/l	Tyrosine	•	•	•	•		2244600
TENSIDIT - ANIONISET | SURFACTANTS (ANIONIC)								
LCK	0.05–2.0 mg/l	Methylene blue	•	•	•			LCK332
LCK	0.1–4.0 mg/l	Methylene blue	•	•	•			LCK432
TENSIDIT - KATIONISET | SURFACTANTS (CATIONIC)								
LCK	0.2–2.0 mg/l	CTAB, Bromophenol blue	•	•	•			LCK331
TENSIDIT - NONIONISET | SURFACTANTS (NONIONIC)								
LCK	0.2–6.0 mg/l	TBPE	•	•	•			LCK333
LCK	0.1–20 g/l	CTAS	•	•	•			LCK334
LCK	6–200 mg/l	TBPE	•	•	•			LCK433
TINA | TIN								
LCK	0.1–2.0 mg/l	Pyridinfluoron (PYF)	•	•	•			LCK359
TOC = TC - TIC | TOC (difference method)								
LCK	2–65 mg/l TOC	Persulphate Digestion	•	•	•			LCK380
LCK	60–735 mg/l TOC	Persulphate Digestion	•	•	•			LCK381

TYYPPI	MITTAUSALUE	MENETELMÄ	DR 2800 & DR 3900	DR 5000 & DR 6000	DR 1900	DR 900	DR 300	TUOTENRO
TOC (CO_2 pois kuplitus) | TOC (purging method)								
LCK	3–30 mg/l TOC	Persulphate Digestion	•	•	•			LCK385
LCK	30–300 mg/l TOC	Persulphate Digestion	•	•	•			LCK386
LCK	300–3 000 mg/l TOC	Persulphate Digestion	•	•	•			LCK387
TNT	0.3–20.0 mg/l C	Persulphate Digestion				•		2760345
TNT	15–150 mg/l C	Persulphate Digestion				•		2815945
TNT	100–700 mg/l C	Persulphate Digestion				•		2760445
TOLYYLITRIATSOLI | TOLYLTRIAZOLE								
PP	1–20 mg/l	UV photolysis	•	•	•	•		2141299
TRIHALOMETAANI | TRIHALOMETHANE								
RS	10–600 ppb $CHCl_3$	THM Plus	•	•	•			2790800
TÄRKKELYS | STARCH								
LCK	2–150 mg/l	Iodine	•	•	•			LCK357
VETYPEROKSIDI | HYDROGEN PEROXIDE								
LCW	1–10 g/l	Peroxomolybdate	•	•				LCW058
RL	0.05–5.00 mg/l	DPD	•	•	•	•		1406499
VIKINAALISET DIKETONIT | VICINAL DIKETONES								
LCK	0.015–0.5 mg/kg diacetyl	MEBAK	•	•				LCK242
VÄRI | COLOUR								
RS	15–500 color units 5–500 color units (LR technique) SPEKTROFOTOMETRIT	Platinum-Cobalt standard method (method 8025)	•	•	•	•		
ZIRKONIUM								
LCK	6–60 mg/l	SurTec/Hach Method	•	•	•			LCK364

Gerhardt
Analytical Systems

MEILTÄ MYÖS LAITTEET KJELDAHL -TYPEN MÄÄRITYKSEEN

ADDISTA LAADUNVARMISTUSSTANDARDIT				
			Standardin pitoisuus (mg/l)	Sallittu hajonta (mg/l)
LCA700	LCK238	N_{tot}	20	± 2
	LCK304	NH_4-N	1	± 0.1
	LCK311	Cl	50	± 3
	LCK328	K	30	± 5
	LCK348	PO_4-P	2.0	± 0.2
	LCK414	COD	30	± 3
LCA701	LCK306	Pb (II)	0.5	± 0.1
	LCK321	$Fe_{tot.}$	3	± 0.15
	LCK329	Cu (II)	2	± 0.1
	LCK337	Ni	2	± 0.1
	LCK353	SO_4	500	± 50
	LCK360	Zn	2	± 0.15
LCA702	LCK301	Al	0.3	± 0.02
	LCK308	Cd	0.2	± 0.03
	LCK313	Cr (VI)	0.5	± 0.05
	LCK353	SO_4	500	± 50
LCA703	LCK049	PO_4-P	10	± 1
	LCK114	COD	500	± 30
	LCK303	NH_4-N	25	± 1.5
	LCK311	Cl	50	± 3
	LCK339	NO_3-N	6	± 0.4
	LCK350	PO_4-P	10	± 1
	LCK353	SO_4	500	± 50
	LCK386	TOC	160	± 25
LCA704	LCK153	SO_4	100	± 15
	LCK305	NH_4-N	5	± 0.5
	LCK311	Cl	50	± 3
	LCK314	COD	50	± 6
	LCK340	NO_3-N	25	± 2
	LCK349	PO_4-P	1	± 0.1
	LCK385	TOC	16	± 2.5
LCA705	LCK014	COD	5 000	± 300
	LCK302	NH_4-N	80	± 10
	LCK311	Cl	50	± 3
	LCK387	TOC	1 600	± 250
LCA706	LCK521	$Fe_{tot.}$	0.2	± 0.03
	LCK529	Cu (II)	0.5	± 0.05
	LCK537	Ni	0.5	± 0.05
	LCW032	Mn	0.5	± 0.1

			Standardin pitoisuus (mg/l)	Sallittu hajonta (mg/l)
LCA707	LCK341	NO_2-N	0.3	± 0.03
	LCK348	PO_4-P	2	± 0.2
	TOTAL	PO_4	6.1	± 0.61
	LCK614	COD	200	± 8
LCA708	LCK338	$N_{tot.}$	60	± 6
	LCK350	PO_4-P	10	± 1
	TOTAL	PO_4	30.5	± 3
	LCK514	COD	1 000	± 40
LCA709	LCK138	$N_{tot.}$	6	± 0.9
	LCK342	NO_2-N	3	± 0.3
	LCK349	PO_4-P	1	± 0.1
	TOTAL	PO_4	3.05	± 0.3
	LCK614	COD	200	± 8
LCA720 (Korkean pitoisuuden jätevesi-standardi, NIST-jäljitettävä)	LCI400 COD	0–1 000 mg/l O_2		
	APC400 COD	0–1 000 mg/l O_2		
	APC114	150–1 000 mg/l O_2		
	APC303	2–47 mg/l NH_4-N		
	APC338	20–100 mg/l TNb		
	APC340	5–35 mg/l NO_3-N		
	APC350	2–20 mg/l PO_4-P		
LCA721 (Matalan pitoisuuden jätevesi-standardi, NIST-jäljitettävä)	LCI500 COD	0–150 mg/l O_2		
	APC500 COD	0–150 mg/l O_2		
	APC314	15–150 mg/l O_2		
	APC304	0.015–2.0 mg/l		
	APC138	1–16 mg/l TNb		
	APC339	0.23–13.5 mg/l		
	APC349	0.05–1.5 mg/l		
LCA310	LCK310	Cl_2	25–30 mg/l	
LCA333	LCK333	Triton x 100	1 g/l	
LCA394 (permanganaatti-indeksin standardi)	LCK394	O_2	1 000 mg/l	
UUTUUS LCA503	LCK503	NH_4-N	50 mg/l	
UUTUUS LCA505	LCK505	NH_4-N	2.50 mg/l	
LCA549	LCK549	PO_4-P	0.2 mg/l	

Hachin ja Radiometerin pH-puskurit

Värikoodatut pH-puskuriliuokset

TUOTENRO	TUOTE	VÄRI	PAKKAUSKOKO
2283449.99	pH-puskuriliuos pH 4.01 NIST-jäljitettävä (± 0.02, 25 °C)	punainen	500 ml
2283549.99	pH-puskuriliuos pH 7.00 NIST-jäljitettävä (± 0.02, 25 °C)	keltainen	500 ml
2283649.99	pH-puskuriliuos pH 10.01 NIST-jäljitettävä (± 0.02, 25 °C)	sininen	500 ml

Radiometerin sertifioidut pH-puskurit

TUOTENRO	TUOTE	PAKKAUSKOKO
S11M001	Puskuriliuos pH 1.679 IUPAC (±0.010, 25 °C)	500 ml
S11M002	Puskuriliuos pH 4.005 IUPAC (±0.010, 25 °C)	500 ml
S11M003	Puskuriliuos pH 6.865 IUPAC (±0.010, 25 °C)	500 ml
S11M004	Puskuriliuos pH 7.000 IUPAC (±0.010, 25 °C)	500 ml
S11M005	Puskuriliuos pH 7.413 IUPAC (±0.010, 25 °C)	500 ml
S11M006	Puskuriliuos pH 9.180 IUPAC (±0.010, 25 °C)	500 ml
S11M007	Puskuriliuos pH 10.012 IUPAC (±0.010, 25 °C)	500 ml
S11M008	Puskuriliuos pH 12.45 IUPAC (±0.05, 25 °C)	500 ml

IUPAC Standard Solution with Certificate of Conformity* and Traceability reporting exact pH buffer value with related expanded uncertainty (k=2). Traceable to IUPAC/NIST pH scale. Guaranteed shelf-life thanks to premium packaging. Colourless pH buffer solution.

*Available for download from uk.hach.com/CoA: using product part number and lot number.

Yksittäispakatut pH-puskurit 20 ml kertakäyttöpusseissa

TUOTENRO	TUOTE	PAKKAUSKOKO
2769820	Puskuriliuos Singlets Combi: pH 7.00 & pH 10.01, (±0.02, 25° C)	2 x 10 kpl
2769920	Puskuriliuos Singlets Combi: pH 4.01 & pH 7.00, (±0.02, 25 °C)	2 x 10 kpl
27700-20	Puskuriliuos Singlets pH 4.01, (±0.02, 25 °C)	20 kpl
27701-20	Puskuriliuos Singlets pH 7.00 (±0.02, 25 °C)	20 kpl
27702-20	Puskuriliuos Singlets pH 10.01 (±0.02, 25 °C)	20 kpl

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