

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | | | | | | Traceability | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--|-----------------|------------------|-----|-----|------------------|------------------|---------------------------------------|-------|-----------------|------------------|------|------|------------------|------------------|------------------|-----|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (2) Potassium | [mmol/L] | | | | 207 | | | | | | | 0 | | | | | | | | | 207 | 195 | 94% |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample B | | 5,80 | 0,11 | 2,0 | 207 | | | | | | | 0 | CRV | 5,764 | 0,086 | 7% | 5,36 | 6,17 | | 207 | 206 | 100% | |
| (179) Siemens | | 5,84 | 0,09 | 1,7 | 16 | 0 | | | | | | | | | | | | | | | | 16 | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | | | 13 | |
| | | | | | | | | | | | | | | 4x 11, 1x 166, 4x 177, 3x 178, 1x 207 | | | | | | | | | |
| (3) Chloride | [mmol/L] | | | | 207 | | | | | | | 207 | 199 | 96% | | | | | | | | 0 | |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 140 | 2,7 | 1,9 | 207 | CVP | 140 | 0,46 | 7% | 130 | 150 | 207 | 201 | 97% | | | | | | | | 0 | |
| (1) Abbott | | 141 | 2,7 | 1,9 | 35 | 0 | | | | | | | | 35 | | | | | | | | | |
| (12) Beckman Coulter | | 141 | 1,5 | 1,1 | 7 | 0 | | | | | | | | 7 | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 141 | 1,6 | 1,1 | 42 | 0 | | | | | | | | 42 | | | | | | | | | |
| (60) Roche | | 139 | 2,8 | 2,0 | 76 | 0 | | | | | | | | 76 | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 139 | 4,7 | 3,4 | 8 | 0 | | | | | | | | 8 | | | | | | | | | |
| (162) Siemens (Atellica) | | 140 | 2,1 | 1,5 | 11 | 0 | | | | | | | | 11 | | | | | | | | | |
| (179) Siemens | | 140 | 2,6 | 1,9 | 16 | 0 | | | | | | | | 16 | | | | | | | | | |
| Other | | | | | 12 | 0 | | | | | | | | 12 | | | | | | | | | |
| | | | | | | | 1x 4, 3x 11, 1x 166, 4x 177, 3x 178 | | | | | | | | | | | | | | | | |
| Sample B | | 114 | 2,7 | 2,4 | 207 | CVP | 114 | 0,47 | 7% | 106 | 122 | 207 | 203 | 98% | | | | | | | | 0 | |
| (1) Abbott | | 117 | 1,6 | 1,4 | 35 | 0 | | | | | | | | 35 | | | | | | | | | |
| (12) Beckman Coulter | | 117 | 3,7 | 3,2 | 7 | 0 | | | | | | | | 7 | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 114 | 1,1 | 0,92 | 42 | 0 | | | | | | | | 42 | | | | | | | | | |
| (60) Roche | | 113 | 2,5 | 2,3 | 76 | 0 | | | | | | | | 76 | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 112 | 4,7 | 4,2 | 8 | 0 | | | | | | | | 8 | | | | | | | | | |
| (162) Siemens (Atellica) | | 115 | 2,2 | 1,9 | 11 | 0 | | | | | | | | 11 | | | | | | | | | |
| (179) Siemens | | 114 | 1,8 | 1,5 | 16 | 0 | | | | | | | | 16 | | | | | | | | | |
| Other | | | | | 12 | 0 | | | | | | | | 12 | | | | | | | | | |
| | | | | | | | 1x 4, 3x 11, 1x 166, 4x 177, 3x 178 | | | | | | | | | | | | | | | | |
| (4) Calcium | [mmol/L] | | | | 194 | | | | | | | | | 0 | | | | | | | 194 | 188 | 97% |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 1,98 | 0,05 | 2,8 | 194 | | | | | | | | | 0 | CRV | 1,941 | 0,029 | 8% | 1,78 | 2,1 | 194 | 189 | 97% |
| (1) Abbott | | 1,94 | 0,06 | 3,4 | 33 | 0 | | | | | | | | | | | | | | | | | 33 |
| (12) Beckman Coulter | | 2,00 | 0,03 | 1,9 | 7 | 0 | | | | | | | | | | | | | | | | | 7 |
| (58) Beckman Coulter (AU) | | 2,00 | 0,03 | 1,5 | 40 | 0 | | | | | | | | | | | | | | | | | 40 |
| (60) Roche | | 1,98 | 0,03 | 2,0 | 69 | 0 | | | | | | | | | | | | | | | | | 69 |
| (149) Siemens (Dade, BN, Dimension) | | 1,96 | 0,05 | 3,0 | 6 | 0 | | | | | | | | | | | | | | | | | 6 |
| (162) Siemens (Atellica) | | 2,04 | 0,05 | 2,7 | 11 | 0 | | | | | | | | | | | | | | | | | 11 |
| (179) Siemens | | 1,98 | 0,07 | 3,8 | 16 | 0 | | | | | | | | | | | | | | | | | 16 |
| Other | | | | | 12 | 0 | | | | | | | | | | | | | | | | | 12 |
| | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | | | | | | | | | | | | |
| Sample B | | 2,78 | 0,06 | 2,4 | 194 | | | | | | | | | 0 | CRV | 2,737 | 0,042 | 8% | 2,51 | 2,96 | 194 | 193 | 99% |
| (1) Abbott | | 2,74 | 0,07 | 2,9 | 33 | 0 | | | | | | | | | | | | | | | | | 33 |
| (12) Beckman Coulter | | 2,79 | 0,07 | 2,7 | 7 | 0 | | | | | | | | | | | | | | | | | 7 |
| (58) Beckman Coulter (AU) | | 2,81 | 0,04 | 1,6 | 40 | 0 | | | | | | | | | | | | | | | | | 40 |
| (60) Roche | | 2,78 | 0,05 | 1,9 | 69 | 0 | | | | | | | | | | | | | | | | | 69 |
| (149) Siemens (Dade, BN, Dimension) | | 2,71 | 0,07 | 2,7 | 6 | 0 | | | | | | | | | | | | | | | | | 6 |
| (162) Siemens (Atellica) | | 2,82 | 0,05 | 2,0 | 11 | 0 | | | | | | | | | | | | | | | | | 11 |
| (179) Siemens | | 2,79 | 0,08 | 2,9 | 16 | 0 | | | | | | | | | | | | | | | | | 16 |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | | | | | | Traceability | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--|-----------------|------------------|-------|------|------------------|------------------|--|-------|-----------------|------------------|------|----|------------------|------------------|------------------|-----|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (4) Calcium | [mmol/L] | | | | 194 | | | | | | | 0 | | | | | | | | | 194 | 188 | 97% |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample B | | 2,78 | 0,06 | 2,4 | 194 | | | | | | | 0 | CRV | 2,737 | 0,042 | 8% | 2,51 | 2,96 | | 194 | 193 | 99% | |
| Other | | | | | 12 | 0 | | | | | | | | | | | | | | | 12 | | |
| | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | | | | | |
| (5) Inorganic phosphate | [mmol/L] | | | | 188 | | | | | | | 188 | 183 | 97% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 0,933 | 0,03 | 3,5 | 188 | CVP | 0,933 | ,0059 | 10% | 0,839 | 1,03 | 188 | 185 | 98% | | | | | | | | | 0 |
| (1) Abbott | | 0,943 | 0,04 | 4,3 | 30 | 0 | | | | | | 30 | | | | | | | | | | | |
| (12) Beckman Coulter | | 0,920 | 0,01 | 1,6 | 7 | 0 | | | | | | 7 | | | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 0,923 | 0,02 | 2,9 | 40 | 0 | | | | | | 40 | | | | | | | | | | | |
| (60) Roche | | 0,928 | 0,02 | 2,9 | 67 | 0 | | | | | | 67 | | | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 0,909 | 0,04 | 5,1 | 6 | 0 | | | | | | 6 | | | | | | | | | | | |
| (162) Siemens (Atellica) | | 0,958 | 0,02 | 2,3 | 11 | 0 | | | | | | 11 | | | | | | | | | | | |
| (179) Siemens | | 0,958 | 0,02 | 2,3 | 15 | 0 | | | | | | 15 | | | | | | | | | | | |
| Other | | | | | 12 | 0 | | | | | | 12 | | | | | | | | | | | |
| | | | | | | | 1x 0, 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 3x 177, 3x 178 | | | | | | | | | | | | | | | | |
| Sample B | | 1,34 | 0,03 | 2,9 | 188 | CVP | 1,34 | ,0069 | 10% | 1,2 | 1,48 | 188 | 185 | 98% | | | | | | | | | 0 |
| (1) Abbott | | 1,35 | 0,04 | 3,4 | 30 | 0 | | | | | | 30 | | | | | | | | | | | |
| (12) Beckman Coulter | | 1,33 | 0,05 | 4,5 | 7 | 0 | | | | | | 7 | | | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 1,33 | 0,03 | 2,6 | 40 | 0 | | | | | | 40 | | | | | | | | | | | |
| (60) Roche | | 1,33 | 0,03 | 2,3 | 67 | 0 | | | | | | 67 | | | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 1,31 | 0,06 | 4,8 | 6 | 0 | | | | | | 6 | | | | | | | | | | | |
| (162) Siemens (Atellica) | | 1,37 | 0,02 | 1,8 | 11 | 0 | | | | | | 11 | | | | | | | | | | | |
| (179) Siemens | | 1,36 | 0,02 | 2,1 | 15 | 0 | | | | | | 15 | | | | | | | | | | | |
| Other | | | | | 12 | 0 | | | | | | 12 | | | | | | | | | | | |
| | | | | | | | 1x 0, 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 3x 177, 3x 178 | | | | | | | | | | | | | | | | |
| (6) Iron | [µmol/L] | | | | 176 | | | | | | | 176 | 173 | 98% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 32,6 | 0,96 | 2,9 | 176 | CVP | 32,6 | 0,18 | 15% | 27,7 | 37,5 | 176 | 173 | 98% | | | | | | | | | 0 |
| (1) Abbott | | 32,8 | 0,98 | 3,0 | 31 | 0 | | | | | | 31 | | | | | | | | | | | |
| (12) Beckman Coulter | | 31,8 | 0,82 | 2,6 | 6 | 0 | | | | | | 6 | | | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 32,1 | 0,67 | 2,1 | 38 | 0 | | | | | | 38 | | | | | | | | | | | |
| (60) Roche | | 33,0 | 0,83 | 2,5 | 59 | 0 | | | | | | 59 | | | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 32,7 | 1,0 | 3,1 | 7 | 0 | | | | | | 7 | | | | | | | | | | | |
| (162) Siemens (Atellica) | | 32,9 | 0,86 | 2,6 | 11 | 0 | | | | | | 11 | | | | | | | | | | | |
| (179) Siemens | | 32,6 | 0,97 | 3,0 | 15 | 0 | | | | | | 15 | | | | | | | | | | | |
| Other | | | | | 9 | 0 | | | | | | 9 | | | | | | | | | | | |
| | | | | | | | 1x 4, 1x 46, 1x 50, 3x 177, 3x 178 | | | | | | | | | | | | | | | | |
| Sample B | | 42,5 | 1,0 | 2,5 | 176 | CVP | 42,5 | 0,19 | 15% | 36,1 | 48,9 | 176 | 175 | 99% | | | | | | | | | 0 |
| (1) Abbott | | 42,3 | 1,1 | 2,6 | 31 | 0 | | | | | | 31 | | | | | | | | | | | |
| (12) Beckman Coulter | | 41,6 | 1,3 | 3,2 | 6 | 0 | | | | | | 6 | | | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 42,3 | 0,89 | 2,1 | 38 | 0 | | | | | | 38 | | | | | | | | | | | |
| (60) Roche | | 42,9 | 0,78 | 1,8 | 59 | 0 | | | | | | 59 | | | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 42,4 | 0,81 | 1,9 | 7 | 0 | | | | | | 7 | | | | | | | | | | | |
| (162) Siemens (Atellica) | | 42,8 | 1,2 | 2,8 | 11 | 0 | | | | | | 11 | | | | | | | | | | | |
| (179) Siemens | | 42,1 | 1,1 | 2,5 | 15 | 0 | | | | | | 15 | | | | | | | | | | | |
| Other | | | | | 9 | 0 | | | | | | 9 | | | | | | | | | | | |
| | | | | | | | 1x 4, 1x 46, 1x 50, 3x 177, 3x 178 | | | | | | | | | | | | | | | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|--|-------|-----|------------------|------------------|------------------|-----|------|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | | |
| (7) Magnesium | | | | | 184 | | | | | | | | | | | |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | |
| Sample A | | 0,977 | 0,02 | 3,0 | 184 | | | | | | | | | | | |
| (1) Abbott | | 0,977 | 0,03 | 3,5 | 31 | 0 | | CRV | 0,959 | 0,015 | 15% | 0,815 | 1,11 | 184 | 183 | 99% |
| (12) Beckman Coulter | | 0,955 | 0,03 | 3,9 | 6 | 0 | | | | | | | | 31 | | |
| (58) Beckman Coulter (AU) | | 0,978 | 0,02 | 2,3 | 38 | 0 | | | | | | | | 6 | | |
| (60) Roche | | 0,981 | 0,02 | 2,5 | 66 | 0 | | | | | | | | 38 | | |
| (149) Siemens (Dade, BN, Dimension) | | 1,01 | 0,05 | 5,2 | 6 | 0 | | | | | | | | 66 | | |
| (162) Siemens (Atellica) | | 0,953 | 0,03 | 3,4 | 11 | 0 | | | | | | | | 6 | | |
| (179) Siemens | | 0,970 | 0,02 | 2,5 | 16 | 0 | | | | | | | | 11 | | |
| Other | | | | | 10 | 0 | | | | | | | | 16 | | |
| | | | | | | | | | | | | | | 10 | | |
| Sample B | | 1,60 | 0,04 | 2,8 | 184 | | | | | | | | | | | |
| (1) Abbott | | 1,63 | 0,05 | 3,3 | 31 | 0 | | CRV | 1,574 | 0,025 | 15% | 1,33 | 1,82 | 184 | 181 | 98% |
| (12) Beckman Coulter | | 1,57 | 0,05 | 3,3 | 6 | 0 | | | | | | | | 31 | | |
| (58) Beckman Coulter (AU) | | 1,60 | 0,04 | 2,6 | 38 | 0 | | | | | | | | 6 | | |
| (60) Roche | | 1,60 | 0,03 | 2,0 | 66 | 0 | | | | | | | | 38 | | |
| (149) Siemens (Dade, BN, Dimension) | | 1,65 | 0,11 | 6,6 | 6 | 0 | | | | | | | | 66 | | |
| (162) Siemens (Atellica) | | 1,59 | 0,04 | 3,0 | 11 | 0 | | | | | | | | 6 | | |
| (179) Siemens | | 1,59 | 0,04 | 2,6 | 16 | 0 | | | | | | | | 11 | | |
| Other | | | | | 10 | 0 | | | | | | | | 16 | | |
| | | | | | | | | | | | | | | 10 | | |
| | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 3x 177, 2x 178 | | | | | | | |
| (8) Lithium | | | | | 25 | | | | | | | | | 25 | 24 | 96% |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | |
| Sample A | | 1,29 | 0,05 | 4,4 | 25 | | | | | | | | | | | |
| (60) Roche | | 1,26 | 0,06 | 4,9 | 9 | 0 | | CRV | 1,309 | 0,020 | 12% | 1,15 | 1,47 | 25 | 25 | 100% |
| Other | | | | | 16 | 0 | | | | | | | | 9 | | |
| | | | | | | | | | | | | | | 16 | | |
| Sample B | | 1,21 | 0,05 | 4,5 | 25 | | | | | | | | | | | |
| (60) Roche | | 1,19 | 0,07 | 6,2 | 9 | 1 | | CRV | 1,244 | 0,019 | 12% | 1,09 | 1,4 | 25 | 24 | 96% |
| Other | | | | | 16 | 0 | | | | | | | | 9 | | |
| | | | | | | | | | | | | | | 16 | | |
| | | | | | | | | | 3x 11, 1x 58, 4x 61, 1x 82, 2x 149, 2x 162, 1x 166, 1x 178, 1x 999 | | | | | | | |
| (9) Total protein | | | | | 198 | | | | | | | | | 198 | 196 | 99% |
| Samples and groups | [g/L] | | | | | | | | | | | | | | | |
| Sample A | | 59,6 | 1,6 | 2,6 | 198 | | | | | | | | | | | |
| (1) Abbott | | 59,7 | 1,1 | 1,8 | 34 | 0 | | CRV | 59,44 | 0,70 | 9% | 54 | 64,8 | 198 | 196 | 99% |
| (12) Beckman Coulter | | 58,9 | 2,1 | 3,6 | 7 | 0 | | | | | | | | 34 | | |
| (58) Beckman Coulter (AU) | | 59,6 | 1,2 | 2,0 | 39 | 0 | | | | | | | | 7 | | |
| (60) Roche | | 59,6 | 1,5 | 2,5 | 72 | 0 | | | | | | | | 39 | | |
| (149) Siemens (Dade, BN, Dimension) | | 62,9 | 1,2 | 2,0 | 6 | 0 | | | | | | | | 72 | | |
| (162) Siemens (Atellica) | | 58,5 | 1,8 | 3,1 | 11 | 0 | | | | | | | | 6 | | |
| (179) Siemens | | 59,1 | 1,5 | 2,5 | 16 | 0 | | | | | | | | 11 | | |
| Other | | | | | 13 | 0 | | | | | | | | 16 | | |
| | | | | | | | | | | | | | | 13 | | |
| Sample B | | 85,3 | 2,2 | 2,6 | 198 | | | | | | | | | | | |
| (1) Abbott | | 86,6 | 1,6 | 1,8 | 34 | 0 | | CRV | 86,11 | 1,0 | 9% | 78,3 | 93,9 | 198 | 198 | 100% |
| (12) Beckman Coulter | | 84,7 | 1,1 | 1,3 | 7 | 0 | | | | | | | | 34 | | |
| (58) Beckman Coulter (AU) | | 85,3 | 1,6 | 1,8 | 39 | 0 | | | | | | | | 7 | | |
| | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178 | | | | | 39 | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|------|--------|------------------|------------------|--|-----------------|------------------|------|------|------------------|------------------|--|-----|-----------------|------------------|------|----|------------------|------------------|------------------|-----|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (9) Total protein | [g/L] | | | | 198 | | | | | | | 0 | | | | | | | | | 198 | 196 | 99% |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample B | | 85,3 | 2,2 | 2,6 | 198 | | | | | | | 0 | CRV | 86,11 | 1,0 | 9% | 78,3 | 93,9 | | 198 | 198 | 100% | |
| (60) Roche | | 84,6 | 1,9 | 2,3 | 72 | 0 | | | | | | | | | | | | | | | | 72 | |
| (149) Siemens (Dade, BN, Dimension) | | 90,0 | 0,99 | 1,1 | 6 | 0 | | | | | | | | | | | | | | | | 6 | |
| (162) Siemens (Atellica) | | 83,3 | 2,4 | 2,9 | 11 | 0 | | | | | | | | | | | | | | | | 11 | |
| (179) Siemens | | 84,9 | 1,9 | 2,2 | 16 | 0 | | | | | | | | | | | | | | | | 16 | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | | | 13 | |
| | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178 | | | | | | | | | |
| (10) Albumin | [g/L] | | | | 196 | | | | | | | 196 | 193 | 98% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 39,0 | 1,4 | 3,5 | 196 | CVP | 39 | 0,24 | 10% | 35,1 | 42,9 | 196 | 193 | 98% | | | | | | | | | 0 |
| (1) Abbott | | 39,0 | 0,89 | 2,3 | 33 | 0 | | | | | | | | 33 | | | | | | | | | |
| (12) Beckman Coulter | | 38,7 | 1,3 | 3,3 | 7 | 0 | | | | | | | | 7 | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 37,7 | 0,91 | 2,4 | 41 | 0 | | | | | | | | 41 | | | | | | | | | |
| (60) Roche | | 39,8 | 1,1 | 2,9 | 70 | 0 | | | | | | | | 70 | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 38,1 | 0,30 | 0,78 | 6 | 0 | | | | | | | | 6 | | | | | | | | | |
| (162) Siemens (Atellica) | | 39,8 | 1,2 | 3,1 | 11 | 0 | | | | | | | | 11 | | | | | | | | | |
| (179) Siemens | | 39,0 | 1,1 | 2,7 | 15 | 0 | | | | | | | | 15 | | | | | | | | | |
| Other | | | | | 13 | 0 | | | | | | | | 13 | | | | | | | | | |
| | | | | | | | 1x 0, 1x 4, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178 | | | | | | | | | | | | | | | | |
| Sample B | | 54,4 | 1,6 | 3,0 | 196 | CVP | 54,4 | 0,28 | 10% | 48,9 | 59,9 | 196 | 194 | 99% | | | | | | | | | 0 |
| (1) Abbott | | 54,2 | 0,93 | 1,7 | 33 | 0 | | | | | | | | 33 | | | | | | | | | |
| (12) Beckman Coulter | | 55,1 | 2,4 | 4,3 | 7 | 0 | | | | | | | | 7 | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 53,4 | 1,2 | 2,2 | 41 | 0 | | | | | | | | 41 | | | | | | | | | |
| (60) Roche | | 55,0 | 1,5 | 2,7 | 70 | 0 | | | | | | | | 70 | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 54,5 | 0,96 | 1,8 | 6 | 0 | | | | | | | | 6 | | | | | | | | | |
| (162) Siemens (Atellica) | | 55,8 | 1,5 | 2,8 | 11 | 0 | | | | | | | | 11 | | | | | | | | | |
| (179) Siemens | | 54,6 | 2,2 | 4,0 | 15 | 0 | | | | | | | | 15 | | | | | | | | | |
| Other | | | | | 13 | 1 | | | | | | | | 13 | | | | | | | | | |
| | | | | | | | 1x 0, 1x 4, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178 | | | | | | | | | | | | | | | | |
| (11) Osmolality | [mmol/kg] | | | | 78 | | | | | | | | | 78 | 71 | 91% | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 337 | 5,7 | 1,7 | 78 | CVP | 337 | 1,6 | 5% | 320 | 354 | 78 | 73 | 94% | | | | | | | | | 0 |
| (119) Advanced Instruments | | 337 | 6,1 | 1,8 | 28 | 0 | | | | | | | | 28 | | | | | | | | | |
| (150) Arkray | | 334 | 4,9 | 1,5 | 25 | 0 | | | | | | | | 25 | | | | | | | | | |
| (151) Fiske Associates | | 340 | 5,3 | 1,6 | 15 | 0 | | | | | | | | 15 | | | | | | | | | |
| (212) GONOTEC GmbH | | 339 | 3,0 | 0,87 | 8 | 0 | | | | | | | | 8 | | | | | | | | | |
| Other | | | | | 2 | 0 | | | | | | | | 2 | | | | | | | | | |
| | | | | | | | 1x 60, 1x 92 | | | | | | | | | | | | | | | | |
| Sample B | | 299 | 7,5 | 2,5 | 78 | CVP | 299 | 2,1 | 5% | 284 | 314 | 78 | 74 | 95% | | | | | | | | | 0 |
| (119) Advanced Instruments | | 301 | 5,4 | 1,8 | 28 | 0 | | | | | | | | 28 | | | | | | | | | |
| (150) Arkray | | 292 | 5,3 | 1,8 | 25 | 0 | | | | | | | | 25 | | | | | | | | | |
| (151) Fiske Associates | | 304 | 4,4 | 1,5 | 15 | 0 | | | | | | | | 15 | | | | | | | | | |
| (212) GONOTEC GmbH | | 305 | 8,9 | 2,9 | 8 | 0 | | | | | | | | 8 | | | | | | | | | |
| Other | | | | | 2 | 0 | | | | | | | | 2 | | | | | | | | | |
| | | | | | | | 1x 60, 1x 92 | | | | | | | | | | | | | | | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--|-----------------|------------------|------|------|------------------|------------------|------------------|--|-----------------|------------------|------|------|------------------|------------------|------------------|-----|--|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | | |
| (12) Lactate | | | | | 93 | | | | | | | 93 | 93 | 100% | | | | | | | 0 | | | |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 3,94 | 0,15 | 3,9 | 93 | CVP | 3,94 | 0,039 | 15% | 3,34 | 4,54 | 93 | 93 | 100% | | | | | | | 0 | | | |
| (1) Abbott | | 3,95 | 0,30 | 7,5 | 8 | | | | | | | 8 | | | | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 3,90 | 0,11 | 2,8 | 18 | | | | | | | 18 | | | | | | | | | | | | |
| (60) Roche | | 3,96 | 0,11 | 2,9 | 35 | | | | | | | 35 | | | | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 4,12 | 0,27 | 6,5 | 5 | | | | | | | 5 | | | | | | | | | | | | |
| (162) Siemens (Atellica) | | 3,94 | 0,09 | 2,4 | 9 | | | | | | | 9 | | | | | | | | | | | | |
| Other | | | | | 18 | | | | | | | 18 | | | | | | | | | | | | |
| | | | | | | | 3x 12, 1x 40, 2x 49, 3x 61, 2x 178, 4x 179, 2x 187, 1x 188 | | | | | | | | | | | | | | | | | |
| Sample B | | 2,96 | 0,11 | 3,7 | 93 | CVP | 2,96 | 0,028 | 15% | 2,51 | 3,41 | 93 | 93 | 100% | | | | | | | 0 | | | |
| (1) Abbott | | 3,07 | 0,15 | 4,8 | 8 | | | | | | | 8 | | | | | | | | | | | | |
| (58) Beckman Coulter (AU) | | 2,94 | 0,05 | 1,9 | 18 | | | | | | | 18 | | | | | | | | | | | | |
| (60) Roche | | 2,95 | 0,07 | 2,4 | 35 | | | | | | | 35 | | | | | | | | | | | | |
| (149) Siemens (Dade, BN, Dimension) | | 3,08 | 0,18 | 5,8 | 5 | | | | | | | 5 | | | | | | | | | | | | |
| (162) Siemens (Atellica) | | 2,89 | 0,02 | 0,77 | 9 | | | | | | | 9 | | | | | | | | | | | | |
| Other | | | | | 18 | | | | | | | 18 | | | | | | | | | | | | |
| | | | | | | | 3x 12, 1x 40, 2x 49, 3x 61, 2x 178, 4x 179, 2x 187, 1x 188 | | | | | | | | | | | | | | | | | |
| (13) Bilirubin total | | | | | 209 | | | | | | | 0 | | | | | | | | | 209 | 203 | 97% | |
| Samples and groups | [µmol/L] | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 32,4 | 2,8 | 8,5 | 209 | | | | | | | 0 | | CRV | 30,8 | 1,0 | 21% | 24,3 | 37,3 | 209 | 204 | 98% | | |
| (1) Abbott | | 33,6 | 1,5 | 4,5 | 35 | | | | | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 34,4 | 1,6 | 4,7 | 6 | | | | | | | | | | | | | | | | 6 | | | |
| (58) Beckman Coulter (AU) | | 34,1 | 1,2 | 3,4 | 43 | | | | | | | | | | | | | | | | 43 | | | |
| (60) Roche | | 29,7 | 0,97 | 3,3 | 77 | | | | | | | | | | | | | | | | 77 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 31,6 | 1,6 | 4,9 | 8 | | | | | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 36,7 | 1,8 | 4,9 | 11 | | | | | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 34,0 | 1,5 | 4,5 | 16 | | | | | | | | | | | | | | | | 16 | | | |
| Other | | | | | 13 | | | | | | | | | | | | | | | | 13 | | | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | | |
| Sample B | | 32,9 | 2,8 | 8,5 | 209 | | | | | | | 0 | | CRV | 32 | 0,80 | 21% | 25,2 | 38,8 | 209 | 205 | 98% | | |
| (1) Abbott | | 34,1 | 1,6 | 4,6 | 35 | | | | | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 36,8 | 2,4 | 6,4 | 6 | | | | | | | | | | | | | | | | 6 | | | |
| (58) Beckman Coulter (AU) | | 34,8 | 1,2 | 3,5 | 43 | | | | | | | | | | | | | | | | 43 | | | |
| (60) Roche | | 30,3 | 1,1 | 3,5 | 77 | | | | | | | | | | | | | | | | 77 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 32,1 | 1,4 | 4,4 | 8 | | | | | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 37,0 | 1,9 | 5,1 | 11 | | | | | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 34,5 | 1,9 | 5,5 | 16 | | | | | | | | | | | | | | | | 16 | | | |
| Other | | | | | 13 | | | | | | | | | | | | | | | | 13 | | | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | | |
| (15) Cholesterol | | | | | 197 | | | | | | | 7 | 7 | 100% | | | | | | | 190 | 186 | 98% | |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 3,37 | 0,13 | 4,0 | 197 | | | | | | | 7 | 7 | 100% | | | | | | | 190 | 187 | 98% | |
| (1) Abbott | | 3,39 | 0,08 | 2,5 | 35 | | | | | | | | | | CRV | 3,447 | 0,034 | 9% | 3,13 | 3,76 | 35 | | | |
| (12) Beckman Coulter | | 3,38 | 0,23 | 6,8 | 6 | | | | | | | | | | CRV | 3,447 | 0,034 | 9% | 3,13 | 3,76 | 6 | | | |
| (58) Beckman Coulter (AU) | | 3,51 | 0,10 | 2,9 | 40 | | | | | | | | | | CRV | 3,447 | 0,034 | 9% | 3,13 | 3,76 | 40 | | | |
| (60) Roche | | 3,29 | 0,08 | 2,5 | 69 | | | | | | | | | | CRV | 3,447 | 0,034 | 9% | 3,13 | 3,76 | 69 | | | |
| (162) Siemens (Atellica) | | 3,40 | 0,05 | 1,7 | 11 | | | | | | | | | | CRV | 3,447 | 0,034 | 9% | 3,13 | 3,76 | 11 | | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|------------------|------|------|------------------|------------------|------------------|--|-----------------|------------------|-----|------|------------------|------------------|------------------|------|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (15) Cholesterol | | | | | 197 | | | | | | | 7 | 7 | 100% | | | | | | | 190 | 186 | 98% |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 3,37 | 0,13 | 4,0 | 197 | | | | | | | 7 | 7 | 100% | | | | | | | 190 | 187 | 98% |
| (179) Siemens | | 3,42 | 0,05 | 1,7 | 15 | 0 | | | | | | | | | CRV | 3,447 | 0,034 | 9% | 3,13 | 3,76 | 15 | | |
| (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension) | | 2,84 | 0,19 | 6,5 | 7 | 0 | CVPG | 2,84 | 0,18 | 7,5% | 2,62 | 3,06 | | | | | | | | | | | |
| Other | | | | | 14 | 0 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | 14 |
| Sample B | | 5,07 | 0,22 | 4,4 | 197 | | | | | | | 7 | 7 | 100% | | | | | | | 190 | 188 | 99% |
| (1) Abbott | | 5,08 | 0,11 | 2,1 | 35 | 0 | | | | | | | | | CRV | 5,129 | 0,051 | 9% | 4,66 | 5,6 | 35 | | |
| (12) Beckman Coulter | | 5,14 | 0,32 | 6,2 | 6 | 0 | | | | | | | | | CRV | 5,129 | 0,051 | 9% | 4,66 | 5,6 | 6 | | |
| (58) Beckman Coulter (AU) | | 5,34 | 0,15 | 2,7 | 40 | 0 | | | | | | | | | CRV | 5,129 | 0,051 | 9% | 4,66 | 5,6 | 40 | | |
| (60) Roche | | 4,94 | 0,13 | 2,6 | 69 | 0 | | | | | | | | | CRV | 5,129 | 0,051 | 9% | 4,66 | 5,6 | 69 | | |
| (162) Siemens (Atellica) | | 5,04 | 0,11 | 2,2 | 11 | 0 | | | | | | | | | CRV | 5,129 | 0,051 | 9% | 4,66 | 5,6 | 11 | | |
| (179) Siemens | | 5,12 | 0,12 | 2,4 | 15 | 0 | | | | | | | | | CRV | 5,129 | 0,051 | 9% | 4,66 | 5,6 | 15 | | |
| (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension) | | 4,66 | 0,22 | 4,6 | 7 | 0 | CVPG | 4,66 | 0,21 | 7,5% | 4,31 | 5,01 | | | | | | | | | | | |
| Other | | | | | 14 | 0 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | 14 |
| (16) Glucose | | | | | 211 | | | | | | | | | | | | | | | | 211 | 209 | 99% |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 6,58 | 0,18 | 2,7 | 211 | | | | | | | | | | CRV | 6,53 | 0,065 | 8% | 6 | 7,06 | 211 | 211 | 100% |
| (1) Abbott | | 6,50 | 0,19 | 2,8 | 35 | 0 | | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 6,62 | 0,07 | 1,1 | 7 | 0 | | | | | | | | | | | | | | | 7 | | |
| (58) Beckman Coulter (AU) | | 6,69 | 0,16 | 2,5 | 43 | 0 | | | | | | | | | | | | | | | 43 | | |
| (60) Roche | | 6,54 | 0,15 | 2,3 | 76 | 0 | | | | | | | | | | | | | | | 76 | | |
| (149) Siemens (Dade, BN, Dimension) | | 6,68 | 0,19 | 2,8 | 8 | 0 | | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 6,58 | 0,18 | 2,8 | 11 | 0 | | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 6,63 | 0,20 | 3,0 | 16 | 0 | | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 15 | 0 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178, 1x 187, 1x 999 | | | | | | | | 15 |
| Sample B | | 5,37 | 0,16 | 3,0 | 211 | | | | | | | | | | CRV | 5,467 | 0,055 | 8% | 5,02 | 5,91 | 211 | 209 | 99% |
| (1) Abbott | | 5,31 | 0,20 | 3,8 | 35 | 0 | | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 5,45 | 0,12 | 2,2 | 7 | 0 | | | | | | | | | | | | | | | 7 | | |
| (58) Beckman Coulter (AU) | | 5,43 | 0,12 | 2,3 | 43 | 0 | | | | | | | | | | | | | | | 43 | | |
| (60) Roche | | 5,33 | 0,12 | 2,3 | 76 | 0 | | | | | | | | | | | | | | | 76 | | |
| (149) Siemens (Dade, BN, Dimension) | | 5,52 | 0,16 | 2,9 | 8 | 0 | | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 5,35 | 0,14 | 2,6 | 11 | 0 | | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 5,47 | 0,20 | 3,6 | 16 | 0 | | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 15 | 0 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 2x 166, 4x 177, 3x 178, 1x 187, 1x 999 | | | | | | | | 15 |
| (17) Uric acid | | | | | 205 | | | | | | | | | | | | | | | | 205 | 205 | 100% |
| Samples and groups | [µmol/L] | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 418 | 14 | 3,4 | 205 | | | | | | | | | | CRV | 415,2 | 4,2 | 12% | 365 | 466 | 205 | 205 | 100% |
| (1) Abbott | | 421 | 8,1 | 1,9 | 35 | 0 | | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 424 | 23 | 5,4 | 6 | 0 | | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 428 | 8,3 | 1,9 | 41 | 0 | | | | | | | | | | | | | | | 41 | | |
| (60) Roche | | 408 | 12 | 2,9 | 74 | 0 | | | | | | | | | | | | | | | 74 | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|------------------|----|----|------------------|--|------------------|-----|------|------|-----|-----|------|--|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | | | | | | | |
| (17) Uric acid | | | | | 205 | | | | | | 0 | | | | 205 | 205 | 100% | | | | |
| Samples and groups | [µmol/L] | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 418 | 14 | 3,4 | 205 | | | | | | 0 | CRV | 415,2 | 4,2 | 12% | 365 | 466 | 205 | 205 | 100% | |
| (149) Siemens (Dade, BN, Dimension) | | 429 | 13 | 3,0 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 424 | 8,0 | 1,9 | 11 | 0 | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 428 | 13 | 3,0 | 17 | 0 | | | | | | | | | | | | 17 | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | 13 | | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | |
| Sample B | | 612 | 17 | 2,8 | 205 | | | | | | 0 | CRV | 612 | 6,1 | 12% | 538 | 686 | 205 | 205 | 100% | |
| (1) Abbott | | 621 | 15 | 2,4 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 607 | 22 | 3,7 | 6 | 0 | | | | | | | | | | | | 6 | | | |
| (58) Beckman Coulter (AU) | | 613 | 11 | 1,9 | 41 | 0 | | | | | | | | | | | | 41 | | | |
| (60) Roche | | 601 | 15 | 2,4 | 74 | 0 | | | | | | | | | | | | 74 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 636 | 32 | 5,0 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 620 | 12 | 2,0 | 11 | 0 | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 628 | 16 | 2,5 | 17 | 0 | | | | | | | | | | | | 17 | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | 13 | | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | |
| (18) Urea | | | | | 209 | | | | | | 0 | | | | | | | 209 | 208 | 100% | |
| Samples and groups | [mmol/L] | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 19,0 | 0,71 | 3,8 | 209 | | | | | | 0 | CRV | 19,4 | 0,19 | 15% | 16,4 | 22,4 | 209 | 209 | 100% | |
| (1) Abbott | | 18,9 | 0,89 | 4,7 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 19,2 | 0,44 | 2,3 | 7 | 0 | | | | | | | | | | | | 7 | | | |
| (58) Beckman Coulter (AU) | | 19,0 | 0,62 | 3,3 | 43 | 0 | | | | | | | | | | | | 43 | | | |
| (60) Roche | | 18,7 | 0,54 | 2,9 | 76 | 0 | | | | | | | | | | | | 76 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 19,6 | 0,74 | 3,8 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 19,6 | 0,41 | 2,1 | 11 | 0 | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 19,6 | 0,65 | 3,3 | 16 | 0 | | | | | | | | | | | | 16 | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | 13 | | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | |
| Sample B | | 15,0 | 0,52 | 3,5 | 209 | | | | | | 0 | CRV | 15,3 | 0,15 | 15% | 13 | 17,6 | 209 | 208 | 100% | |
| (1) Abbott | | 14,9 | 0,62 | 4,2 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 15,1 | 0,40 | 2,6 | 7 | 0 | | | | | | | | | | | | 7 | | | |
| (58) Beckman Coulter (AU) | | 15,0 | 0,51 | 3,4 | 43 | 0 | | | | | | | | | | | | 43 | | | |
| (60) Roche | | 14,8 | 0,47 | 3,2 | 76 | 0 | | | | | | | | | | | | 76 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 15,4 | 0,52 | 3,4 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 15,2 | 0,45 | 2,9 | 11 | 0 | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 15,3 | 0,44 | 2,9 | 16 | 0 | | | | | | | | | | | | 16 | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | 13 | | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | |
| (19) Creatinine | | | | | 212 | | | | | | 0 | | | | | | | 212 | 198 | 93% | |
| Samples and groups | [µmol/L] | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 165 | 5,8 | 3,5 | 212 | | | | | | 0 | CRV | 164,8 | 1,6 | 13% | 143 | 187 | 212 | 212 | 100% | |
| (1) Abbott | | 164 | 7,0 | 4,3 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 165 | 3,7 | 2,3 | 7 | 0 | | | | | | | | | | | | 7 | | | |
| (58) Beckman Coulter (AU) | | 165 | 6,2 | 3,8 | 43 | 0 | | | | | | | | | | | | 43 | | | |
| (60) Roche | | 167 | 5,4 | 3,2 | 78 | 0 | | | | | | | | | | | | 78 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 164 | 6,3 | 3,8 | 9 | 0 | | | | | | | | | | | | 9 | | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|------------------|----|----|------------------|--|------------------|-----|------|------|-----|-----|------|-----|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | | | | | | | |
| (19) Creatinine | | | | | 212 | | | | | | 0 | | | | 212 | 198 | 93% | | | | |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | |
| Sample A | [µmol/L] | 165 | 5,8 | 3,5 | 212 | | | | | | 0 | CRV | 164,8 | 1,6 | 13% | 143 | 187 | 212 | 212 | 100% | |
| (162) Siemens (Atellica) | | 162 | 2,9 | 1,8 | 11 | 0 | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 164 | 3,6 | 2,2 | 16 | 0 | | | | | | | | | | | | 16 | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | 13 | | | |
| Sample B | | 150 | 9,0 | 6,0 | 212 | | | | | | 0 | CRV | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | 146,6 | 1,7 | 13% | 127 | 166 | 212 | 198 | 93% |
| (1) Abbott | | 154 | 15 | 9,5 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 153 | 10 | 6,7 | 7 | 0 | | | | | | | | | | | | 7 | | | |
| (58) Beckman Coulter (AU) | | 147 | 4,2 | 2,8 | 43 | 0 | | | | | | | | | | | | 43 | | | |
| (60) Roche | | 153 | 8,2 | 5,3 | 78 | 0 | | | | | | | | | | | | 78 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 155 | 11 | 7,0 | 9 | 0 | | | | | | | | | | | | 9 | | | |
| (162) Siemens (Atellica) | | 141 | 6,4 | 4,5 | 11 | 0 | | | | | | | | | | | | 11 | | | |
| (179) Siemens | | 147 | 8,5 | 5,8 | 16 | 0 | | | | | | | | | | | | 16 | | | |
| Other | | | | | 13 | 0 | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | 13 | | | |
| (20) Triacylglycerols | | | | | 195 | | | | | | 0 | | | | | | | 195 | 193 | 99% | |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | |
| Sample A | [mmol/L] | 1,41 | 0,05 | 3,7 | 195 | | | | | | 0 | CRV | 1,369 | 0,016 | 15% | 1,16 | 1,58 | 195 | 195 | 100% | |
| (1) Abbott | | 1,40 | 0,03 | 2,7 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 1,46 | 0,13 | 8,7 | 6 | 0 | | | | | | | | | | | | 6 | | | |
| (58) Beckman Coulter (AU) | | 1,36 | 0,04 | 3,2 | 39 | 0 | | | | | | | | | | | | 39 | | | |
| (60) Roche | | 1,43 | 0,03 | 2,4 | 69 | 0 | | | | | | | | | | | | 69 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 1,42 | 0,12 | 8,6 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 1,45 | 0,02 | 1,6 | 10 | 0 | | | | | | | | | | | | 10 | | | |
| (179) Siemens | | 1,43 | 0,02 | 1,8 | 16 | 0 | | | | | | | | | | | | 16 | | | |
| Other | | | | | 12 | 0 | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | 12 | | | |
| Sample B | | 1,33 | 0,04 | 3,7 | 195 | | | | | | 0 | CRV | 1,318 | 0,013 | 15% | 1,12 | 1,52 | 195 | 193 | 99% | |
| (1) Abbott | | 1,35 | 0,04 | 3,0 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 1,41 | 0,18 | 13 | 6 | 0 | | | | | | | | | | | | 6 | | | |
| (58) Beckman Coulter (AU) | | 1,29 | 0,03 | 2,3 | 39 | 0 | | | | | | | | | | | | 39 | | | |
| (60) Roche | | 1,34 | 0,03 | 2,9 | 69 | 0 | | | | | | | | | | | | 69 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 1,35 | 0,11 | 8,3 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 1,37 | 0,02 | 1,8 | 10 | 0 | | | | | | | | | | | | 10 | | | |
| (179) Siemens | | 1,36 | 0,01 | 1,1 | 16 | 0 | | | | | | | | | | | | 16 | | | |
| Other | | | | | 12 | 0 | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | 12 | | | |
| (21) ALP | | | | | 203 | | | | | | 0 | | | | | | | 203 | 203 | 100% | |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | |
| Sample A | [µkat/L] | 4,36 | 0,39 | 9,0 | 203 | | | | | | 0 | CRV | 4,568 | 0,10 | 28% | 3,28 | 5,85 | 203 | 203 | 100% | |
| (1) Abbott | | 4,52 | 0,21 | 4,7 | 35 | 0 | | | | | | | | | | | | 35 | | | |
| (12) Beckman Coulter | | 4,61 | 0,29 | 6,3 | 6 | 0 | | | | | | | | | | | | 6 | | | |
| (58) Beckman Coulter (AU) | | 4,85 | 0,35 | 7,2 | 41 | 0 | | | | | | | | | | | | 41 | | | |
| (60) Roche | | 4,06 | 0,21 | 5,2 | 74 | 0 | | | | | | | | | | | | 74 | | | |
| (149) Siemens (Dade, BN, Dimension) | | 4,31 | 0,22 | 5,0 | 8 | 0 | | | | | | | | | | | | 8 | | | |
| (162) Siemens (Atellica) | | 4,07 | 0,07 | 1,9 | 11 | 0 | | | | | | | | | | | | 11 | | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | | |
|---|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|------------------|----|------|------------------|------------------|------------------|--|-----------------|------------------|------|------|------------------|------------------|------------------|------|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (21) ALP | | | | | 203 | | | | | | | 0 | | | | | | | | | 203 | 203 | 100% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 4,36 | 0,39 | 9,0 | 203 | | | | | | | 0 | | CRV | 4,568 | 0,10 | 28% | 3,28 | 5,85 | | 203 | 203 | 100% |
| (179) Siemens | | 4,28 | 0,24 | 5,6 | 16 | 0 | | | | | | | | | | | | | | | | 16 | |
| Other | | | | | 12 | 0 | | | | | | | | | | | | | | | | 12 | |
| Sample B | | 2,62 | 0,19 | 7,1 | 203 | | | | | | | 0 | | CRV | 2,731 | 0,080 | 28% | 1,96 | 3,5 | | 203 | 203 | 100% |
| (1) Abbott | | 2,72 | 0,15 | 5,5 | 35 | 0 | | | | | | | | | | | | | | | | 35 | |
| (12) Beckman Coulter | | 2,60 | 0,09 | 3,7 | 6 | 0 | | | | | | | | | | | | | | | | 6 | |
| (58) Beckman Coulter (AU) | | 2,80 | 0,21 | 7,4 | 41 | 0 | | | | | | | | | | | | | | | | 41 | |
| (60) Roche | | 2,49 | 0,13 | 5,0 | 74 | 0 | | | | | | | | | | | | | | | | 74 | |
| (149) Siemens (Dade, BN, Dimension) | | 2,63 | 0,08 | 3,1 | 8 | 0 | | | | | | | | | | | | | | | | 8 | |
| (162) Siemens (Atellica) | | 2,47 | 0,07 | 3,2 | 11 | 0 | | | | | | | | | | | | | | | | 11 | |
| (179) Siemens | | 2,57 | 0,07 | 3,1 | 16 | 0 | | | | | | | | | | | | | | | | 16 | |
| Other | | | | | 12 | 0 | | | | | | | | | | | | | | | | 12 | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | | | | |
| (22) alpha-amylase | | | | | 200 | | | | | | | 6 | 6 | 100% | | | | | | | 194 | 189 | 97% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 8,15 | 0,51 | 6,2 | 200 | | | | | | | 6 | 6 | 100% | | | | | | | 194 | 189 | 97% |
| (1) Abbott | | 8,61 | 0,53 | 6,1 | 33 | 0 | | | | | | | | CRV | 8,213 | 0,22 | 15% | 6,98 | 9,45 | | | 33 | |
| (12) Beckman Coulter | | 8,47 | 0,19 | 2,3 | 7 | 0 | | | | | | | | CRV | 8,213 | 0,22 | 15% | 6,98 | 9,45 | | | 7 | |
| (58) Beckman Coulter (AU) | | 8,32 | 0,19 | 2,2 | 41 | 0 | | | | | | | | CRV | 8,213 | 0,22 | 15% | 6,98 | 9,45 | | | 41 | |
| (60) Roche | | 7,72 | 0,15 | 1,9 | 73 | 0 | | | | | | | | CRV | 8,213 | 0,22 | 15% | 6,98 | 9,45 | | | 73 | |
| (162) Siemens (Atellica) | | 8,69 | 0,18 | 2,1 | 11 | 0 | | | | | | | | CRV | 8,213 | 0,22 | 15% | 6,98 | 9,45 | | | 11 | |
| (179) Siemens | | 8,14 | 0,36 | 4,4 | 16 | 0 | | | | | | | | CRV | 8,213 | 0,22 | 15% | 6,98 | 9,45 | | | 16 | |
| (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension) | | 10,1 | 0,23 | 2,3 | 6 | 0 | CVPG | 10,1 | 0,32 | 9% | 9,19 | 11,1 | | 6 | | | | | | | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | | | 13 | |
| Sample B | | 8,28 | 0,50 | 6,0 | 200 | | | | | | | 6 | 6 | 100% | | | | | | | 194 | 190 | 98% |
| (1) Abbott | | 8,65 | 0,52 | 6,0 | 33 | 0 | | | | | | | | CRV | 8,325 | 0,023 | 15% | 7,07 | 9,58 | | | 33 | |
| (12) Beckman Coulter | | 8,63 | 0,39 | 4,5 | 7 | 0 | | | | | | | | CRV | 8,325 | 0,023 | 15% | 7,07 | 9,58 | | | 7 | |
| (58) Beckman Coulter (AU) | | 8,50 | 0,21 | 2,5 | 41 | 0 | | | | | | | | CRV | 8,325 | 0,023 | 15% | 7,07 | 9,58 | | | 41 | |
| (60) Roche | | 7,86 | 0,16 | 2,0 | 73 | 0 | | | | | | | | CRV | 8,325 | 0,023 | 15% | 7,07 | 9,58 | | | 73 | |
| (162) Siemens (Atellica) | | 8,80 | 0,21 | 2,3 | 11 | 0 | | | | | | | | CRV | 8,325 | 0,023 | 15% | 7,07 | 9,58 | | | 11 | |
| (179) Siemens | | 8,26 | 0,34 | 4,1 | 16 | 0 | | | | | | | | CRV | 8,325 | 0,023 | 15% | 7,07 | 9,58 | | | 16 | |
| (149) Siemens (Dade, BN, Dimension); (149) Siemens (Dade, BN, Dimension) | | 9,92 | 0,16 | 1,6 | 6 | 0 | CVPG | 9,92 | 0,22 | 9% | 9,02 | 10,9 | | 6 | | | | | | | | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | | | 13 | |
| | | | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | |
| (23) AST | | | | | 209 | | | | | | | 0 | | | | | | | | | 209 | 195 | 93% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 5,59 | 0,24 | 4,3 | 209 | | | | | | | 0 | | CRV | 5,711 | 0,13 | 15% | 4,85 | 6,57 | | 209 | 201 | 96% |
| (1) Abbott | | 5,59 | 0,11 | 1,9 | 35 | 0 | | | | | | | | | | | | | | | | 35 | |
| (12) Beckman Coulter | | 5,79 | 0,13 | 2,2 | 6 | 0 | | | | | | | | | | | | | | | | 6 | |
| (58) Beckman Coulter (AU) | | 5,79 | 0,21 | 3,6 | 43 | 0 | | | | | | | | | | | | | | | | 43 | |
| (60) Roche | | 5,50 | 0,19 | 3,5 | 77 | 0 | | | | | | | | | | | | | | | | 77 | |
| (149) Siemens (Dade, BN, Dimension) | | 5,45 | 0,13 | 2,4 | 8 | 0 | | | | | | | | | | | | | | | | 8 | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|------------------|----|----|------------------|--|------------------|-----|------|------|-----|-----|------|-----|------|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | | | | | | | | |
| (23) AST | | | | | 209 | | | | | | 0 | | | | 209 | 195 | 93% | | | | | |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 5,59 | 0,24 | 4,3 | 209 | | | | | | 0 | CRV | 5,711 | 0,13 | 15% | 4,85 | 6,57 | 209 | 201 | 96% | | |
| (162) Siemens (Atellica) | | 5,79 | 0,12 | 2,0 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 5,65 | 0,32 | 5,7 | 16 | 0 | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | 13 | | |
| Sample B | | 3,27 | 0,16 | 4,7 | 209 | | | | | | 0 | CRV | 3,287 | 0,013 | 15% | 2,79 | 3,79 | 209 | 198 | 95% | | |
| (1) Abbott | | 3,33 | 0,07 | 2,3 | 35 | 0 | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 3,28 | 0,19 | 5,7 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 3,37 | 0,14 | 4,0 | 43 | 0 | | | | | | | | | | | | | | 43 | | |
| (60) Roche | | 3,21 | 0,12 | 3,9 | 77 | 0 | | | | | | | | | | | | | | 77 | | |
| (149) Siemens (Dade, BN, Dimension) | | 3,17 | 0,08 | 2,6 | 8 | 0 | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 3,41 | 0,09 | 2,7 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 3,28 | 0,18 | 5,5 | 16 | 0 | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | 13 | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | | | |
| (24) ALT | | | | | 210 | | | | | | 0 | | | | | | | | | 210 | 206 | 98% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 3,02 | 0,13 | 4,4 | 210 | | | | | | 0 | CRV | 3,084 | 0,078 | 15% | 2,62 | 3,55 | 210 | 210 | 100% | | |
| (1) Abbott | | 3,03 | 0,16 | 5,1 | 35 | 0 | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 3,05 | 0,05 | 1,7 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 3,01 | 0,06 | 2,3 | 43 | 0 | | | | | | | | | | | | | | 43 | | |
| (60) Roche | | 2,93 | 0,08 | 2,9 | 77 | 0 | | | | | | | | | | | | | | 77 | | |
| (149) Siemens (Dade, BN, Dimension) | | 3,29 | 0,16 | 4,7 | 8 | 0 | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 3,17 | 0,05 | 1,8 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (177) MINDRAY | | 3,34 | 0,06 | 2,0 | 5 | 0 | | | | | | | | | | | | | | 5 | | |
| (179) Siemens | | 3,13 | 0,08 | 2,8 | 16 | 0 | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 9 | 0 | | | | | | | | | | | | | | 9 | | |
| Sample B | | 1,22 | 0,08 | 7,0 | 210 | | | | | | 0 | CRV | 1,222 | 0,013 | 15% | 1,03 | 1,41 | 210 | 206 | 98% | | |
| (1) Abbott | | 1,27 | 0,06 | 4,9 | 35 | 0 | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 1,24 | 0,03 | 2,4 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 1,23 | 0,03 | 2,8 | 43 | 0 | | | | | | | | | | | | | | 43 | | |
| (60) Roche | | 1,14 | 0,04 | 3,9 | 77 | 0 | | | | | | | | | | | | | | 77 | | |
| (149) Siemens (Dade, BN, Dimension) | | 1,39 | 0,04 | 3,1 | 8 | 0 | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 1,27 | 0,05 | 4,0 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (177) MINDRAY | | 1,36 | 0,05 | 3,8 | 5 | 0 | | | | | | | | | | | | | | 5 | | |
| (179) Siemens | | 1,26 | 0,05 | 4,2 | 16 | 0 | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 9 | 0 | | | | | | | | | | | | | | 9 | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 3x 178, 1x 999 | | | | | | | | | |
| (26) CK | | | | | 193 | | | | | | 0 | | | | | | | | | 193 | 193 | 100% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 5,45 | 0,37 | 6,7 | 193 | | | | | | 0 | CRV | 5,598 | 0,17 | 20% | 4,47 | 6,72 | 193 | 193 | 100% | | |
| (1) Abbott | | 5,46 | 0,47 | 8,7 | 32 | 0 | | | | | | | | | | | | | | 32 | | |
| (12) Beckman Coulter | | 5,43 | 0,21 | 3,8 | 5 | 0 | | | | | | | | | | | | | | 5 | | |
| (58) Beckman Coulter (AU) | | 5,49 | 0,30 | 5,5 | 40 | 0 | | | | | | | | | | | | | | 40 | | |
| (60) Roche | | 5,31 | 0,31 | 5,9 | 72 | 0 | | | | | | | | | | | | | | 72 | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | |
|-------------------------------------|----------|---------------|------|--------|------------------|------------------|--------------|-----------------|------------------|----|----|------------------|--|------------------|-----|------|------|-----|-----|------|-----|------|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | | | | | | | | |
| (26) CK | | | | | 193 | | | | | | 0 | | | | 193 | 193 | 100% | | | | | |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 5,45 | 0,37 | 6,7 | 193 | | | | | | 0 | CRV | 5,598 | 0,17 | 20% | 4,47 | 6,72 | 193 | 193 | 100% | | |
| (149) Siemens (Dade, BN, Dimension) | | 5,39 | 0,32 | 5,9 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (162) Siemens (Atellica) | | 5,58 | 0,24 | 4,3 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 5,83 | 0,42 | 7,2 | 15 | 0 | | | | | | | | | | | | | | 15 | | |
| Other | | | | | 12 | 0 | | | | | | | | | | | | | | 12 | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | | | 12 | | |
| Sample B | | 3,44 | 0,22 | 6,3 | 193 | | | | | | 0 | CRV | 3,469 | 0,037 | 20% | 2,77 | 4,17 | 193 | 193 | 100% | | |
| (1) Abbott | | 3,51 | 0,27 | 7,7 | 32 | 0 | | | | | | | | | | | | | | 32 | | |
| (12) Beckman Coulter | | 3,38 | 0,33 | 9,7 | 5 | 0 | | | | | | | | | | | | | | 5 | | |
| (58) Beckman Coulter (AU) | | 3,43 | 0,17 | 4,8 | 40 | 0 | | | | | | | | | | | | | | 40 | | |
| (60) Roche | | 3,39 | 0,19 | 5,6 | 72 | 0 | | | | | | | | | | | | | | 72 | | |
| (149) Siemens (Dade, BN, Dimension) | | 3,49 | 0,20 | 5,7 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (162) Siemens (Atellica) | | 3,42 | 0,18 | 5,4 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 3,56 | 0,26 | 7,4 | 15 | 0 | | | | | | | | | | | | | | 15 | | |
| Other | | | | | 12 | 0 | | | | | | | | | | | | | | 12 | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178 | | | | | | | 12 | | |
| (27) gamma-GT | | | | | 205 | | | | | | 0 | | | | | | | | | 205 | 198 | 97% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 2,47 | 0,11 | 4,4 | 205 | | | | | | 0 | CRV | 2,561 | 0,065 | 15% | 2,17 | 2,95 | 205 | 199 | 97% | | |
| (1) Abbott | | 2,47 | 0,14 | 5,6 | 35 | 0 | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 2,52 | 0,05 | 2,1 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 2,42 | 0,06 | 2,7 | 42 | 0 | | | | | | | | | | | | | | 42 | | |
| (60) Roche | | 2,50 | 0,05 | 2,0 | 74 | 0 | | | | | | | | | | | | | | 74 | | |
| (149) Siemens (Dade, BN, Dimension) | | 2,62 | 0,16 | 6,0 | 8 | 0 | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 2,22 | 0,16 | 7,3 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 2,41 | 0,17 | 7,0 | 16 | 0 | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | 13 | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | 13 | | |
| Sample B | | 2,09 | 0,08 | 4,2 | 205 | | | | | | 0 | CRV | 2,175 | ,0080 | 15% | 1,84 | 2,51 | 205 | 199 | 97% | | |
| (1) Abbott | | 2,10 | 0,12 | 5,5 | 35 | 0 | | | | | | | | | | | | | | 35 | | |
| (12) Beckman Coulter | | 2,12 | 0,05 | 2,8 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 2,07 | 0,06 | 2,9 | 42 | 0 | | | | | | | | | | | | | | 42 | | |
| (60) Roche | | 2,10 | 0,05 | 2,6 | 74 | 0 | | | | | | | | | | | | | | 74 | | |
| (149) Siemens (Dade, BN, Dimension) | | 2,25 | 0,08 | 3,6 | 8 | 0 | | | | | | | | | | | | | | 8 | | |
| (162) Siemens (Atellica) | | 1,85 | 0,13 | 7,1 | 11 | 0 | | | | | | | | | | | | | | 11 | | |
| (179) Siemens | | 2,06 | 0,12 | 5,9 | 16 | 0 | | | | | | | | | | | | | | 16 | | |
| Other | | | | | 13 | 0 | | | | | | | | | | | | | | 13 | | |
| | | | | | | | | | | | | | 1x 4, 1x 5, 1x 46, 1x 50, 1x 166, 4x 177, 3x 178, 1x 999 | | | | | | | 13 | | |
| (28) LD | | | | | 158 | | | | | | 0 | | | | | | | | | 158 | 158 | 100% |
| Samples and groups | [µkat/L] | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 2,78 | 0,11 | 3,9 | 158 | | | | | | 0 | CRV | 2,902 | 0,067 | 18% | 2,37 | 3,43 | 158 | 158 | 100% | | |
| (1) Abbott | | 2,81 | 0,15 | 5,2 | 24 | 0 | | | | | | | | | | | | | | 24 | | |
| (12) Beckman Coulter | | 2,80 | 0,16 | 5,8 | 6 | 0 | | | | | | | | | | | | | | 6 | | |
| (58) Beckman Coulter (AU) | | 2,76 | 0,11 | 3,8 | 33 | 0 | | | | | | | | | | | | | | 33 | | |
| (60) Roche | | 2,75 | 0,07 | 2,9 | 60 | 0 | | | | | | | | | | | | | | 60 | | |
| (162) Siemens (Atellica) | | 2,77 | 0,05 | 1,8 | 11 | 0 | | | | | | | | | | | | | | 11 | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | Traceability | | | | | | | | | | | | | | | | |
|--------------------------------------|----------|---------------|------|--------|------------------|------------------|--------------|--|------------------|-----|-------|------------------|------------------|------------------|----|-----------------|------------------|----|----|------------------|------------------|------------------|----|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (30) Cholinesterase | [µkat/L] | | | | 73 | | | | | | | 70 | 67 | 96% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample B | | 171 | 7,9 | 4,6 | 73 | | | | | | | 70 | 67 | 96% | | | | | | | | | 0 |
| (58) Beckman Coulter (AU) | | 169 | 6,6 | 3,9 | 14 | 0 | CVP | 170 | 2,1 | 12% | 149 | 191 | | | | | | | | | | | 14 |
| (60) Roche | | 168 | 4,2 | 2,5 | 25 | 0 | CVP | 170 | 2,1 | 12% | 149 | 191 | | | | | | | | | | | 25 |
| (179) Siemens | | 177 | 7,3 | 4,1 | 9 | 0 | CVP | 170 | 2,1 | 12% | 149 | 191 | | | | | | | | | | | 9 |
| Other | | | | | 11 | 0 | | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | 3x 12, 1x 46, 2x 149, 1x 166, 1x 178, 3x 162/162 | | | | | | | | | | | | | | | |
| (31) Albumin (elpho) | [-] | | | | 60 | | | | | | | 60 | 57 | 95% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 0,645 | 0,03 | 5,9 | 60 | | CVP | 0,645 | 0,012 | 15% | 0,548 | 0,742 | | | | | | | | | | | 0 |
| (34) Sebia | | 0,652 | 0,03 | 5,4 | 47 | 0 | | | | | | | | | | | | | | | | | 47 |
| (213) Interlab Srl | | 0,618 | 0,03 | 5,4 | 13 | 0 | | | | | | | | | | | | | | | | | 13 |
| Sample B | | 0,634 | 0,05 | 8,2 | 60 | | CVP | 0,634 | 0,016 | 15% | 0,538 | 0,73 | | | | | | | | | | | 0 |
| (34) Sebia | | 0,651 | 0,03 | 5,9 | 47 | 0 | | | | | | | | | | | | | | | | | 47 |
| (213) Interlab Srl | | 0,571 | 0,03 | 6,9 | 13 | 0 | | | | | | | | | | | | | | | | | 13 |
| (32) gamma-globuline (elpho) | [-] | | | | 60 | | | | | | | 60 | 55 | 92% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 0,123 | 0,01 | 12 | 60 | | CVP | 0,123 | ,0045 | 30% | 0,086 | 0,16 | | | | | | | | | | | 0 |
| (34) Sebia | | 0,122 | 0,01 | 13 | 47 | 0 | | | | | | | | | | | | | | | | | 47 |
| (213) Interlab Srl | | 0,125 | 0,01 | 8,6 | 13 | 0 | | | | | | | | | | | | | | | | | 13 |
| Sample B | | 0,124 | 0,01 | 13 | 60 | | CVP | 0,124 | ,0049 | 30% | 0,086 | 0,162 | | | | | | | | | | | 0 |
| (34) Sebia | | 0,120 | 0,01 | 11 | 47 | 0 | | | | | | | | | | | | | | | | | 47 |
| (213) Interlab Srl | | 0,137 | 0,01 | 8,2 | 13 | 0 | | | | | | | | | | | | | | | | | 13 |
| (35) alpha-amylase pancreatic | [µkat/L] | | | | 78 | | | | | | | 78 | 78 | 100% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 7,24 | 0,29 | 4,0 | 78 | | CVP | 7,24 | 0,080 | 18% | 5,93 | 8,55 | | | | | | | | | | | 0 |
| (1) Abbott | | 7,24 | 0,22 | 3,1 | 15 | 0 | | | | | | | | | | | | | | | | | 15 |
| (58) Beckman Coulter (AU) | | 7,16 | 0,22 | 3,1 | 11 | 0 | | | | | | | | | | | | | | | | | 11 |
| (60) Roche | | 7,10 | 0,13 | 1,8 | 27 | 0 | | | | | | | | | | | | | | | | | 27 |
| (162) Siemens (Atellica) | | 8,21 | 0,10 | 1,3 | 9 | 0 | | | | | | | | | | | | | | | | | 9 |
| (179) Siemens | | 7,67 | 0,34 | 4,4 | 9 | 0 | | | | | | | | | | | | | | | | | 9 |
| Other | | | | | 7 | 0 | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | 4x 12, 3x 178 | | | | | | | | | | | | | | | |
| Sample B | | 7,21 | 0,28 | 3,9 | 78 | | CVP | 7,21 | 0,078 | 18% | 5,91 | 8,51 | | | | | | | | | | | 0 |
| (1) Abbott | | 7,22 | 0,22 | 3,1 | 15 | 0 | | | | | | | | | | | | | | | | | 15 |
| (58) Beckman Coulter (AU) | | 7,16 | 0,14 | 2,0 | 11 | 0 | | | | | | | | | | | | | | | | | 11 |
| (60) Roche | | 7,05 | 0,13 | 1,9 | 27 | 0 | | | | | | | | | | | | | | | | | 27 |
| (162) Siemens (Atellica) | | 8,10 | 0,19 | 2,4 | 9 | 0 | | | | | | | | | | | | | | | | | 9 |
| (179) Siemens | | 7,67 | 0,30 | 4,0 | 9 | 0 | | | | | | | | | | | | | | | | | 9 |
| Other | | | | | 7 | 0 | | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | 4x 12, 3x 178 | | | | | | | | | | | | | | | |
| (36) Calcium ionised | [mmol/L] | | | | 38 | | | | | | | 38 | 36 | 95% | | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 1,32 | 0,04 | 3,7 | 38 | | CVP | 1,32 | 0,019 | 10% | 1,18 | 1,46 | | | | | | | | | | | 0 |
| (60) Roche | | 1,33 | 0,03 | 2,6 | 15 | 0 | | | | | | | | | | | | | | | | | 15 |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

EQA round: AKS1/21 - Basic Clinical Chemistry - Serum

Deadline: 29.01.2021

| Test | [unit] | Comparability | | | | | | | | | | | Traceability | | | | | | | | | |
|-----------------------------|----------|---------------|------|--------|------------------|-----------------------------|------|-----------------|------------------|------|------|------------------|------------------|------------------|----|-----------------|------------------|----|----|------------------|------------------|------------------|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} |
| (36) Calcium ionised | [mmol/L] | | | | 38 | | | | | | | 38 | 36 | 95% | | | | | | | | 0 |
| Samples and groups | | | | | | | | | | | | | | | | | | | | | | |
| Sample A | | 1,32 | 0,04 | 3,7 | 38 | CVP | 1,32 | 0,019 | 10% | 1,18 | 1,46 | 38 | 36 | 95% | | | | | | | | 0 |
| (61) Radiometer | | 1,33 | 0,03 | 2,9 | 16 | | | | | | | | | | | | | | | | | |
| Other | | | | | 7 | | | | | | | | | | | | | | | | | |
| | | | | | | 1x 12, 1x 38, 3x 53, 2x 179 | | | | | | | | | | | | | | | | |
| Sample B | | 1,68 | 0,04 | 2,4 | 38 | CVP | 1,68 | 0,016 | 10% | 1,51 | 1,85 | 38 | 37 | 97% | | | | | | | | 0 |
| (60) Roche | | 1,70 | 0,03 | 1,9 | 15 | | | | | | | | | | | | | | | | | |
| (61) Radiometer | | 1,68 | 0,03 | 2,0 | 16 | | | | | | | | | | | | | | | | | |
| Other | | | | | 7 | | | | | | | | | | | | | | | | | |
| | | | | | | 1x 12, 1x 38, 3x 53, 2x 179 | | | | | | | | | | | | | | | | |

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End of report

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