

## Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of groups n = 5

## EQA round: CRP4/18 - C-Reactive Protein

Dead line: 07.12.2018

|  |  |  |
|--|--|--|
| RoM = robust average                                 | AV = assigned value  | Dmax = acceptable percent difference     |
| SD = standard deviation                              | CRV = certified reference value                                      | LL = lower limit                         |
| CV = coefficient of variation                        | RV = reference value   | UL = upper limit                         |
| Ntot = total number of participants                  | CVE = consensus value from experts                                   | Neva = number of evaluated participants  |
| Nout = number of results excluded before calculation | CVP = consensus value from all participants                          | Nsuc = number of successful participants |
|  | CVPG = consensus value from participants groups                      | Srel = success (relative)                |
|  | U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2) |  |

| Test                            | [unit] | Comparability |      |        |                  |                  |   |                 |                  |      |      |                  |                  |                  |
|---------------------------------|--------|---------------|------|--------|------------------|------------------|---|-----------------|------------------|------|------|------------------|------------------|------------------|
|                                 |        | RoM           | SD   | CV [%] | N <sub>tot</sub> | N <sub>out</sub> | AV  | U <sub>AV</sub> | D <sub>max</sub> | LL   | UL   | N <sub>eva</sub> | N <sub>suc</sub> | S <sub>rel</sub> |
| <b>(100) C-reactive protein</b> |        |               |      |        | 148              |                  |   |                 |                  |      |      | 148              | 142              | 96%              |
| Samples and groups              | [mg/L] |               |      |        |                  |                  |   |                 |                  |      |      |                  |                  |                  |
| <b>Sample A</b>                 |        | 54,3          | 4,2  | 7,7    | 148              | CVP              | 54,3  | 0,84            | 24%              | 41,2 | 67,4 | 148              | 145              | 98%              |
| (1) Abbott                      |        | 53,5          | 2,5  | 4,7    | 23               | 0                |   |                 |                  |      |      | 23               |                  |                  |
| (12) Beckman Coulter            |        | 56,5          | 3,7  | 6,6    | 5                | 0                |   |                 |                  |      |      | 5                |                  |                  |
| (58) Beckman Coulter (Olympus)  |        | 58,0          | 2,4  | 4,1    | 37               | 0                |   |                 |                  |      |      | 37               |                  |                  |
| (60) Roche                      |        | 51,6          | 3,8  | 7,4    | 47               | 0                |   |                 |                  |      |      | 47               |                  |                  |
| (166) Thermo Fisher             |        | 56,0          | 1,6  | 2,8    | 5                | 0                |   |                 |                  |      |      | 5                |                  |                  |
| (179) Siemens (Bayer)           |        | 55,4          | 2,3  | 4,2    | 16               | 0                |   |                 |                  |      |      | 16               |                  |                  |
| Other                           |        |               |      |        | 15               | 0                |   |                 |                  |      |      | 15               |                  |                  |
|                                 |        |               |      |        |                  |                  | 1x 4, 1x 40, 1x 50, 1x 57, 1x 61, 1x 91, 3x 149, 2x 177, 1x 200, 3x 999 |                 |                  |      |      |                  |                  |                  |
| <b>Sample B</b>                 |        | 8,27          | 0,77 | 9,3    | 148              | CVP              | 8,27  | 0,16            | 24%              | 6,28 | 10,3 | 148              | 143              | 97%              |
| (1) Abbott                      |        | 8,27          | 0,29 | 3,5    | 23               | 0                |   |                 |                  |      |      | 23               |                  |                  |
| (12) Beckman Coulter            |        | 8,55          | 0,22 | 2,6    | 5                | 0                |   |                 |                  |      |      | 5                |                  |                  |
| (58) Beckman Coulter (Olympus)  |        | 8,66          | 0,39 | 4,5    | 37               | 0                |   |                 |                  |      |      | 37               |                  |                  |
| (60) Roche                      |        | 7,79          | 0,74 | 9,5    | 47               | 0                |   |                 |                  |      |      | 47               |                  |                  |
| (166) Thermo Fisher             |        | 8,45          | 0,37 | 4,4    | 5                | 0                |   |                 |                  |      |      | 5                |                  |                  |
| (179) Siemens (Bayer)           |        | 8,19          | 1,1  | 14     | 16               | 0                |   |                 |                  |      |      | 16               |                  |                  |
| Other                           |        |               |      |        | 15               | 1                |   |                 |                  |      |      | 15               |                  |                  |
|                                 |        |               |      |        |                  |                  | 1x 4, 1x 40, 1x 50, 1x 57, 1x 61, 1x 91, 3x 149, 2x 177, 1x 200, 3x 999 |                 |                  |      |      |                  |                  |                  |

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End of report

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