

## EQA round: CRP4/23 - C-Reactive Protein

Deadline: 1.12.2023

Setup: groups - M (measurement principle); minimal size of the groups n = 5

RoM = robust average

SD = standard deviation

CV = coefficient of variation

N<sub>tot</sub> = total number of the resultsN<sub>out</sub> = number of the results removed before calculation

AV = assigned value

CVP = consensus of all participants

U<sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)D<sub>max</sub> = acceptable difference

LL = lower limit

UL = upper limit

N<sub>eva</sub> = number of the results assessedN<sub>suc</sub> = number of successful resultsS<sub>rel</sub> = relative success

| Test<br>Sample<br>Group         | [unit] | RoM  | SD  | CV<br>[%] | N <sub>tot</sub> | N <sub>out</sub> | Comparability |                 |                  |     |      | N <sub>eva</sub> | N <sub>suc</sub> | S <sub>rel</sub><br>[%] |    |
|---------------------------------|--------|------|-----|-----------|------------------|------------------|---------------|-----------------|------------------|-----|------|------------------|------------------|-------------------------|----|
|                                 |        |      |     |           |                  |                  | AV            | U <sub>AV</sub> | D <sub>max</sub> | LL  | UL   |                  |                  |                         |    |
| <b>(100) C-reactive protein</b> | [mg/L] |      |     |           | 195              |                  |               |                 |                  |     |      | 195              | 193              | 99                      |    |
| <b>Sample A</b>                 |        | 48,1 | 3,5 | 7,3       | 195              |                  | CVP           | 48,1            | 0,62             | 24% | 36,5 | 59,7             | 195              | 193                     | 99 |
| (2) Immunoturbidimetry          |        | 48,1 | 3,5 | 7,2       | 187              | 0                |               |                 |                  |     |      |                  | 187              |                         |    |
| (3) Immunonephelometry          |        | 48,9 | 6,7 | 14        | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |    |
| Other                           |        |      |     |           | 3                | 0                |               |                 |                  |     |      |                  | 3                |                         |    |
|                                 |        |      |     |           |                  |                  | 3x            | 99              |                  |     |      |                  |                  |                         |    |
| <b>Sample B</b>                 |        | 26,2 | 2   | 7,6       | 195              |                  | CVP           | 26,2            | 0,35             | 24% | 19,9 | 32,5             | 195              | 193                     | 99 |
| (2) Immunoturbidimetry          |        | 26,2 | 2   | 7,6       | 187              | 0                |               |                 |                  |     |      |                  | 187              |                         |    |
| (3) Immunonephelometry          |        | 24,9 | 1,3 | 5,1       | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |    |
| Other                           |        |      |     |           | 3                | 0                |               |                 |                  |     |      |                  | 3                |                         |    |
|                                 |        |      |     |           |                  |                  | 3x            | 99              |                  |     |      |                  |                  |                         |    |