

## EQA round: CSFK1/24 - Cerebrospinal Fluid Diagnostics

Deadline: 22.3.2024

Setup: groups - R (manufacturer of kit); 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>(398) Albumin</b>                | [mg/L]               |      |       |           | 44               |                  |               |   |                  |     |      | 44               | 44               | 100                     |     |
| <b>Sample K</b>                     |                      | 680  | 52    | 7,6       | 44               |                  | CVP           | 680   | 19               | 23% | 523  | 837              | 44               | 44                      | 100 |
| (60) Roche                          |                      | 664  | 21    | 3,2       | 14               | 0                |               |   |                  |     |      |                  | 14               |                         |     |
| (149) Siemens (Dade, BN, Dimension) |                      | 705  | 45    | 6,4       | 8                | 0                |               |   |                  |     |      |                  | 8                |                         |     |
| (162) Siemens (Atellica)            |                      | 637  | 80    | 13        | 10               | 0                |               |   |                  |     |      |                  | 10               |                         |     |
| Other                               |                      |      |       |           | 12               | 0                |               |   |                  |     |      |                  | 12               |                         |     |
|                                     |                      |      |       |           |                  |                  |               | 2x 1, 3x 12, 3x 91, 4x 179                              |                  |     |      |                  |                  |                         |     |
| <b>(396) Glucose</b>                | [mmol/L]             |      |       |           | 43               |                  |               |   |                  |     |      | 43               | 43               | 100                     |     |
| <b>Sample K</b>                     |                      | 2,01 | 0,048 | 2,4       | 43               |                  | CVP           | 2,01  | 0,018            | 18% | 1,64 | 2,38             | 43               | 43                      | 100 |
| (60) Roche                          |                      | 2    | 0,027 | 1,4       | 20               | 0                |               |   |                  |     |      |                  | 20               |                         |     |
| (162) Siemens (Atellica)            |                      | 2,05 | 0,074 | 3,6       | 8                | 0                |               |   |                  |     |      |                  | 8                |                         |     |
| Other                               |                      |      |       |           | 15               | 0                |               |   |                  |     |      |                  | 15               |                         |     |
|                                     |                      |      |       |           |                  |                  |               | 1x 0, 2x 1, 4x 46, 4x 58, 1x 75, 1x 178, 1x 179, 1x 188 |                  |     |      |                  |                  |                         |     |
| <b>(401) IgA</b>                    | [mg/L]               |      |       |           | 20               |                  |               |   |                  |     |      | 20               | 20               | 100                     |     |
| <b>Sample K</b>                     |                      | 12   | 0,71  | 5,9       | 20               |                  | CVP           | 12  | 0,39             | 32% | 8,16 | 15,9             | 20               | 20                      | 100 |
| (149) Siemens (Dade, BN, Dimension) |                      | 12   | 1,2   | 9,9       | 8                | 0                |               |   |                  |     |      |                  | 8                |                         |     |
| Other                               |                      |      |       |           | 12               | 0                |               |   |                  |     |      |                  | 12               |                         |     |
|                                     |                      |      |       |           |                  |                  |               | 3x 12, 4x 91, 3x 162, 2x 179                            |                  |     |      |                  |                  |                         |     |
| <b>(399) IgG</b>                    | [mg/L]               |      |       |           | 35               |                  |               |   |                  |     |      | 35               | 34               | 97                      |     |
| <b>Sample K</b>                     |                      | 125  | 8,6   | 6,9       | 35               |                  | CVP           | 125   | 3,6              | 24% | 95   | 155              | 35               | 34                      | 97  |
| (60) Roche                          |                      | 117  | 4,7   | 4         | 12               | 0                |               |   |                  |     |      |                  | 12               |                         |     |
| (149) Siemens (Dade, BN, Dimension) |                      | 126  | 8,9   | 7,1       | 8                | 0                |               |   |                  |     |      |                  | 8                |                         |     |
| Other                               |                      |      |       |           | 15               | 0                |               |   |                  |     |      |                  | 15               |                         |     |
|                                     |                      |      |       |           |                  |                  |               | 4x 12, 4x 91, 4x 162, 3x 179                            |                  |     |      |                  |                  |                         |     |
| <b>(402) IgM</b>                    | [mg/L]               |      |       |           | 23               |                  |               |   |                  |     |      | 23               | 22               | 96                      |     |
| <b>Sample K</b>                     |                      | 6,75 | 0,68  | 10        | 23               |                  | CVP           | 6,75  | 0,35             | 31% | 4,65 | 8,85             | 23               | 22                      | 96  |
| (91) Binding Site                   |                      | 7,63 | 0,59  | 7,8       | 5                | 0                |               |   |                  |     |      |                  | 5                |                         |     |
| (149) Siemens (Dade, BN, Dimension) |                      | 6,66 | 0,21  | 3,1       | 8                | 0                |               |   |                  |     |      |                  | 8                |                         |     |
| Other                               |                      |      |       |           | 10               | 0                |               |   |                  |     |      |                  | 10               |                         |     |
|                                     |                      |      |       |           |                  |                  |               | 3x 12, 2x 60, 3x 162, 2x 179                            |                  |     |      |                  |                  |                         |     |
| <b>(411) Intrathec. synt. IgA</b>   | [mg/L]               |      |       |           | 20               |                  |               |   |                  |     |      | 20               | 20               | 100                     |     |
| <b>Sample K</b>                     |                      |      |       |           |                  |                  |               |   |                  |     |      | 20               | 20               | 100                     |     |
| (0) not specified                   |                      | 0    | 0     |           | 20               | 0                | CVP           | 0   | asym.            | 0   | 1    | 20               |                  |                         |     |
| <b>(410) Intrathec. synt. IgG</b>   | [mg/L]               |      |       |           | 35               |                  |               |   |                  |     |      | 35               | 34               | 97                      |     |
| <b>Sample K</b>                     |                      |      |       |           |                  |                  |               |   |                  |     |      | 35               | 34               | 97                      |     |
| (0) not specified                   |                      | 0    | 0     |           | 35               | 1                | CVP           | 0   | asym.            | 0   | 1    | 35               |                  |                         |     |
| <b>(412) Intrathec. synt. IgM</b>   | [mg/L]               |      |       |           | 23               |                  |               |   |                  |     |      | 23               | 23               | 100                     |     |
| <b>Sample K</b>                     |                      |      |       |           |                  |                  |               |   |                  |     |      | 23               | 23               | 100                     |     |
| (0) not specified                   |                      | 0    | 0     |           | 23               | 0                | CVP           | 0   | asym.            | 0   | 1    | 23               |                  |                         |     |
| <b>(403) Lactate</b>                | [mmol/L]             |      |       |           | 42               |                  |               |   |                  |     |      | 42               | 42               | 100                     |     |
| <b>Sample K</b>                     |                      | 1,83 | 0,059 | 3,2       | 42               |                  | CVP           | 1,83  | 0,022            | 20% | 1,46 | 2,2              | 42               | 42                      | 100 |
| (60) Roche                          |                      | 1,85 | 0,037 | 2         | 22               | 0                |               |   |                  |     |      |                  | 22               |                         |     |
| (162) Siemens (Atellica)            |                      | 1,79 | 0,21  | 12        | 8                | 0                |               |   |                  |     |      |                  | 8                |                         |     |
| Other                               |                      |      |       |           | 12               | 0                |               |   |                  |     |      |                  | 12               |                         |     |
|                                     |                      |      |       |           |                  |                  |               | 3x 1, 1x 49, 3x 58, 1x 75, 1x 116, 1x 179, 2x 188       |                  |     |      |                  |                  |                         |     |
| <b>(413) Barrier permeability</b>   | [·10 <sup>-3</sup> ] |      |       |           | 44               |                  |               |   |                  |     |      | 44               | 44               | 100                     |     |
| <b>Sample K</b>                     |                      |      |       |           |                  |                  |               |   |                  |     |      | 44               | 44               | 100                     |     |
| (0) not specified                   |                      | 17,9 | 1,3   | 7,5       | 44               | 0                | CVP           | 17,9  | 0,5              | 25% | 13,4 | 22,4             | 44               |                         |     |