**Evaluation of AUTION EYE AI-4510 flow cell morphology analyzer for counting urinary particles**

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**Table 3S.** Detection of white blood cells (WBC) in urine by AUTION EYE AI-4510 against visual microscopy. Statistical uncertainty zone (11-100 ×106/L) is marked with **bold face**.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **AUTION EYE AI-4510** | | | | | | | | | | | | | | |
| **VISUAL** | Categories (particles ×106/L) | | | | | | | | | | | | | | |
| Categories (particles ×106/L) | 0-10 | | | 11-30 | | 31-100 | 101-300 | | | 301-1000 | | >1000 | **Total** | | |
| 0-10 | 441 | | | **53** | | **0** | 0 | | | 0 | | 0 | *494* | | |
| 11-30 | **25** | | | **133** | | **31** | 0 | | | 0 | | 0 | *189* | | |
| 31-100 | **5** | | | **15** | | **139** | 5 | | | 0 | | 0 | *164* | | |
| 101-300 | 1 | | | 0 | | 10 | 92 | | | 7 | | 0 | *110* | | |
| 301-1000 | 1 | | | 0 | | 0 | 5 | | | 38 | | 0 | *44* | | |
| >1000 | 0 | | | 0 | | 0 | 0 | | | 0 | | 11 | *11* | | |
| **Total** | *473* | | | *201* | | *180* | *102* | | | *45* | | *11* | *1012* | | |
| **Agreement at diagonal** | | | 84.4% | | | | | |
| Agreement, diagonal ±1 category | | | 99.3% | | | | | |
| Cohen’s kappa (Weighted) | | | 0.95 | | | | | |
| **Accuracy of diagnostic classification** | | | | |  | | | | | |  | | | |
| **Limit of positivity** | | 10 | | | | | | 30 | | | | | |
| Sensitivity (95%CI) | | 93.8% (95%CI: 91.4 – 95.7%) | | | | | | 93.3% (95%CI: 90.1 – 95.8%) | | | | | |
| Specificity (95%CI) | | 89.3% (95%CI: 86.2 – 91.9%) | | | | | | 95.5% (95%CI: 93.6 – 96.9%) | | | | | | |