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

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**Table 2S.** Detection of red blood cells (RBC) 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 | 327 | | **92** | | | **4** | 1 | | *0* | | | *0* | *424* |
| 11-30 | **54** | | **188** | | | **35** | 0 | | *0* | | | *0* | *277* |
| 31-100 | **0** | | **14** | | | **132** | 19 | | *0* | | | *0* | *165* |
| 101-300 | 1 | | 0 | | | 2 | 56 | | *6* | | | *0* | *65* |
| 301-1000 | 0 | | 0 | | | 0 | 2 | | *43* | | | *6* | *51* |
| >1000 | 0 | | 0 | | | 0 | 0 | | *0* | | | *30* | *30* |
| **Total** | *382* | | *294* | | | *173* | *78* | | *49* | | | *36* | *1012* |
| **Agreement at diagonal** | | 76.7% | | | | | | | |
| Agreement, diagonal ±1 category | | | | 99.4% | | | |
| Cohen’s kappa (weighted) | | | | 0.93 | | | |
| **Accuracy of diagnostic classification** | | | | |  | | | | | |  | | | |
| Limit of positivity | 10 | | | | | | | | 30 | | | | |
| Sensitivity (95%CI) | 90.7% (95%CI: 88.0 – 92.9%) | | | | | | | | 95.2% (95%CI: 92.2 – 97.3%) | | | | |
| Specificity (95%CI) | 77.1% (95%CI: 72.8 – 81.0%) | | | | | | | | 94.3% (95%CI: 92.3 – 95.9%) | | | | |