# TITLE: Instrument Correlation Protocol

### PURPOSE

Because test results can be different for different instruments, it is important to run correlation studies on all instruments that may be used for a particular analyte to ensure similar results.

### EQUIPMENT & REAGENT PREPARATION

Arkray AX-4030 Automated Urinalysis Analyzer and Aution 9EB test strips

Roche Cobas u411 macroscopic urinalysis dip-stick reader and Roche Chemstrips 10UA

### SPECIMEN

Type of Specimen: Random urine with a volume of 12 ml

Handling Conditions: Handle all specimens as infectious

**FREQUENCY:**

Instrument correlation should be performed every 6 months. This study can also be performed as a trouble shooting tool or when patient results are questionable.

## STEPWISE PROCEDURE:

1. Select a minimum of three patient samples which include normal and abnormal results.

2. Run the samples on both the Roche Cobas u411 and the Arkray AX-4030.

3. Save the print-outs

4. Record the testing results for each strip assay on the Correlation Data Summary sheet

5. After correlation sample testing is completed, the results are to be reviewed. The results should match within one semi-quantitative grade.

**RESULTS:**

1. If results are within the acceptable range the study is complete

2. If a test is not within the acceptable range, run QC on both instruments. If QC passes, repeat the correlation.

3. If QC fails, follow guidelines for trouble-shooting QC failures on the analyzer which had the QC failure.

**Urinalysis Analyzer Semi-Annual Correlation**

**Data Summary**

Date:\_\_\_\_\_\_\_\_\_\_\_

Performed by :\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample ID | Arkray AX-4030 | S.G. | pH | LEU | NIT | PRO | GLUC | KET | UROB | BIL | HGB | Acceptable?  Yes or No |
| Cobas  u 411 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

* Results must match within one semi-quantitave grade

Corrective Action (if required)

Reviewed by:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_