



Uric Acid

Version: 1

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(note that the following list should be linked to the appropriate location.)

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Summary: *(This area will include a brief description of what the protocol is used for and why someone would need to use it.)*

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Serum uric acid levels are affected by alterations in systemic protein and nitrogen metabolism. Serum uric acid levels are altered in kidney failure and renal complications of diabetes.

Reagents and Materials: *(This should be a comprehensive list of stock solutions and material. The reagent list for the stock solutions is included in the reagent preparation area that is included at the end of this SOP.)*

| Reagent/Material | Vendor | Stock Number |
|-------------------------|--------|--------------|
| Uric Acid | Roche | 04657616 190 |
| Calibrator f.a.s. | | 10759350 360 |
| Precinorm U plus | | 12149435 160 |
| Precipath U plus | | 12149443 160 |
| | | |
| NaCl Diluent 9 % | | 04774230 190 |
| Chimneys | | 11930630 001 |
| Cleaner | | 04774248 190 |
| Micro Sample cups | | 11406680 001 |
| NERL High Quality Water | Fisher | 9805 |

Protocol:

Notes:

- ✓ Try to use freshly prepared serum and plasma samples for this assay.
- ✓ No dilution or treatment of the sample is required, but plasma samples should be centrifuged to remove any fibrin/fibrinogen clumps.
- ✓ Samples should be stored at 2-8°C for 24 hours prior to analysis. For longer periods, store samples at -70°C, and avoid repeated freeze/thaw cycles.
- ✓ A 50 µl dead volume is required in addition to sample volume for multi-protein analysis (typically 1-5 µl).

1. Perform daily quality control assessment of instrumentation before analysis.
2. Load each sample into a specialized micro-sample cup for the clinical chemistry analyzer.
3. Select Uric acid test on display and run the analysis.
4. Collect and analyze the data.