

2019

Working

## U Mass - Urea/BUN 👄

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ABSTRACT

## Summary:

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

EXTERNAL LINK

https://mmpc.org/shared/document.aspx?id=187&docType=Protocol

#### **MATERIALS**

NAME ~	CATALOG #	VENDOR V	CAS NUMBER $\vee$ RRID $\vee$
Urea/BUN	04657616 190	Roche	
Calibrator f.a.s.	10759350 360	Roche	
Precinorm U plus	12149435 160	Roche	
Precipath U plus	12149443 160	Roche	
NaCl Diluent 9 %	04774230 190	Roche	
Chimneys	11930630 001	Roche	
Cleaner	04774248 190	Roche	
Micro Sample cups	11406680 001	Roche	
NERL High Quality Water	9805	Fisher Scientific	

MATERIALS TEXT

## Note:

Roche, RRID:SCR\_001326

Fisher Scientific, RRID:SCR\_008452

BEFORE STARTING

# Notes:

 $\checkmark$  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 eze/thaw cycles.
√ A	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 Urea/BUN test on display and run the analysis.
4	Collect and analyze the data.

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