

OUR LADY OF LOURDES MEMORIAL HOSPITAL
Binghamton, New York
PATHOLOGY AND LABORATORY POLICIES

SUBJECT: 24 Hour Urine Preservatives

ORIGIN DATE: 07/01

REGULATORY REFERENCES:

**CROSS REFERENCES: Test Directory
(Gateway), G drive: Lab folder/Sends file
Reviewed: 01/04/16**

**Revised: 7/02, 07/04, 10/04/07, 09/24/08, 11/4/08, 11/09
3/7/14, 9/23/14, 6/17/15**

Policy:

Some 24 hour urine collections require the use of a preservative in order to obtain accurate results. In most cases the preservative may be added after the urine collection as long as the specimen has been refrigerated during collection.

Listed below are the orderable 24 hour urine tests with active test codes. Every 24 hour jug should have a Name label affixed to it. Other collections that have dietary restrictions or need a preservative added to the jug are listed below. Tests that do not require a preservative or have dietary restrictions will only have the Name label affixed to the jug. Those tests that require a preservative be added after the collection will have a pH sticker affixed to the cap of the jug. This is to alert the tech aliquoting the jug to add the preservative before testing. Some tests that are sent to the reference lab require the sample to be frozen. Freezing of the sample may be done by the day shift staff regardless of when the sample arrives in the laboratory.

24 HOUR URINE PRESERVATIVE LIST

Aldosterone: add 1 boric acid tablet at the start of collection, send frozen (Green sticker)
Amino Levulinic Acid (ALA): no preservative, send frozen
Amylase: Performed on-site. Adjust pH to >8.0 w/NaOH, after addition of acid (pH sticker), urine must sit 1 hour.
Arsenic: no preservative (Blue sticker)
Calcium – performed on-site, add 20 ml HCl after collection (pH sticker) – after addition of acid, urine must sit 1 hour
Catecholamines: no preservative, send frozen, pH to 2-3 (Yellow sticker, pH sticker on Cap)
Chloride: – no preservative, performed on site
Chromium: no preservative (Blue sticker)
Citrate: adjust pH to <2 with HCL after collection (pH sticker)
Copper: no preservative (Blue sticker)
Cortisol: no preservative, send frozen
Creatinine: no preservative, performed on site
Glucose: no preservative, performed on site
5HIAA: no preservative, **attach appropriate dietary restrictions label, send frozen, (Orange sticker)
Immunofix (Bence Jones): no preservative, send refrigerated
Lead: no preservative (Blue sticker)
Magnesium – performed on-site, add 20 ml HCl after collection (pH sticker), after addition of acid, urine must sit 1 hour
Mercury: no preservative (Blue sticker)
Metanephrines: **attach appropriate dietary restrictions label, send frozen, pH to 2-3 (Yellow sticker, pH sticker on Cap)
Methylmalonic acid: no preservative, send frozen
Microalbumin – no preservative, performed on site
Oxalate: send frozen
Phosphorus – performed on-site, add 20 ml HCl after collection (pH sticker), after addition of acid, urine must sit 1 hour
Porphobilinogen : no preservative, send frozen
Porphryn: no preservative, send frozen
Potassium: no preservative, performed on-site
Sodium: no preservative, performed on-site
Total Protein: no preservative, performed on-site
Urea Nitrogen – no preservative, performed on site
Uric Acid – add 10 ml NaOH after collection, performed on site (pH sticker) – after addition of acid, urine must sit 1 hr
VMA: no preservative, send frozen (Yellow sticker)
Zinc: no preservative (Blue sticker)