

Urine Collection for Chemical Analyses

The collection requirements may differ for many substances (see table below), tests highlighted in yellow require an acid preservative be used during collection. Tests which use the same preservative may be collected together unless required collection times are in conflict (i.e., 12-hour collection mandatory, spot collection mandatory, etc.).

Collection containers containing the additives specified can be obtained from each of the hospital based laboratories or one of our specimen collection facilities.

It is preferable to keep all urines refrigerated during timed collections.

Timed Urine Collection Preservative Table ("X" = Preferred, "OK" = acceptable)

| Test name | Test code | Sample type | Container type | No Preserv | Acid wash | 30 mL 6N HCl | 10g Boric acid |
|---|-----------|--------------------------|---|------------|-----------|--------------|----------------|
| 5-Hydroxyindoleacetic acid, 24 hour urine | 5HQT | 24 hour urine collection | 24 hour urine collection | | | X | X |
| Albumin (Microalbumin), 24 hour urine | AU24 | 24 hour urine collection | 24 hour urine collection container | X | OK | | OK |
| Aldosterone, urine | ALDU | 24 hour urine collection | 24 hour urine collection container | | | | X |
| Arsenic, 24 hour urine | ASU | 24 hour urine collection | Acid washed 24 hour specimen collection container | X | X | | |
| Calcium, total, urine | CAU | 24 hour urine collection | 24 hour urine collection container | OK | | X | OK |
| Chloride, urine | CLU | 24 hour urine collection | 24 hour urine collection container | X | OK | | OK |
| Chromium, urine | MOLT | 24 hour urine collection | Acid washed 24 hour urine collection container | X | X | | |
| Citrate, 24 hour urine | CITU | 24 hour urine collection | 24 hour urine collection container | X | OK | OK | OK |
| Copper, 24 hour urine | COPU | 24 hour urine collection | Acid washed 24 hour urine collection container | X | X | | |
| Cortisol, Unconjugated, urine | CRTF | 24 hour urine collection | 24 hour urine collection container | X | OK | OK | OK |
| Creatine, urine | CRTU | 24 hour urine collection | 24 hour urine collection container | X | OK | | |

| | | | | | | | |
|---|-------|---|--|----|----|----|----|
| Creatinine Clearance | CRCL | 24 hour urine collection or timed urine | 24 hour urine collection container | X | OK | OK | OK |
| Creatinine, urine | CRU | 24 hour urine collection or timed urine | 24 hour urine collection container | X | OK | OK | OK |
| Delta-Aminolevulinic Acid Quantitative, 24 hour urine | ALAQ | 24 hour urine collection | Brown 24 hour urine collection container | X | OK | X | |
| D-Xylose Absorption, urine | MOLT | 5 hour urine | 24 hour urine collection container | X | OK | | |
| Free Catecholamines, Fractionated, Urine | UCAF | 24 hour urine collection | 24 hour urine collection container | | | X | |
| Free Hydroxyproline | FHPR | 24 hour urine collection | 24 hour urine collection container | | | X | OK |
| Free Kappa & Lambda light chains, urine | FRULC | 24 hour | 24 hour urine container | X | OK | | |
| Glucose, urine | GLUU | 24 hour urine collection | 24 hour urine collection container | OK | | OK | X |
| Histamine, urine | HISTU | 24 hour urine collection | Brown 24 hour urine collection container | OK | | X | |
| Homovanillic Acid, 24 hour urine | HVA | 24 hour urine collection | 24 hour urine collection container | | | X | |
| Hydroxycorticosteroids, 17- | 17HS | 24 hour urine collection | 24 hour urine collection container | | | OK | X |
| Hydroxyproline, Total | HPRT | 24 hour urine collection | 24 hour urine collection container | | | X | OK |

| | | | | | | | |
|---------------------------------------|---|--------------------------|--|----|----|----|----|
| Immunofixation Electrophoresis, urine | IFEU | 24 hour urine collection | 24 hour urine collection container | X | OK | | |
| Iron, urine | FEU | 24 hour urine collection | Acid washed 24 hour urine collection container | X | X | | |
| Ketosteroids, 17- | 17KS | 24 hour urine collection | 24 hour urine collection container | X | OK | OK | OK |
| Lead, 24 hour urine | PBU | 24 hour urine collection | Acid washed 24 hour urine collection container | X | X | | |
| Magnesium, 24 hour urine | MGU | 24 hour urine collection | 24 hour urine collection container | | | X | OK |
| Manganese, urine | MOLT | 24 hour urine collection | Acid washed 24 hour urine collection container collected | X | X | | |
| Mercury, 24 hour urine | HGU | 24 hour urine collection | Acid washed 24 hour urine collection container collected | X | X | | |
| Metanephrines, urine | METN | 24 hour urine collection | 24 hour urine collection container | | | X | OK |
| N-Telopeptide, urine | MOLT | 24 hour urine collection | 24 hour collection container | X | OK | | |
| Oxalic Acid, Urine | OXAU or MOLT (See processing Instructions) | 24 hour urine collection | 24 hour urine collection container | | | X | OK |
| Para-Aminobenzoic Acid | MOLT | 6 hour urine | 24 hour urine collection container | X | OK | | |
| Phosphorus, urine | PO4U | 24 hour urine collection | 24 hour urine collection container | OK | | X | OK |

| | | | | | | | |
|--|-------|--|---|----|----|----|----|
| Porphobilinogen, Quantitative, 24 hour urine | PBQT | 24 hour urine collection | Brown 24 hour urine collection container w/ 5g sodium carbonate as preservative | | | | |
| Porphyrins, Fractionated, Urine | PORFU | 24 hour urine collection | Brown 24 hour urine collection container w/ 5g sodium carbonate as preservative | OK | | | |
| Potassium, Urine | KUR | 24 hour urine collection | 24 hour urine collection container | X | OK | | OK |
| Pregnanetriol | PRTL | 24 hour urine collection | 24 hour urine collection container | X | | | |
| Protein Electrophoresis, urine | PEU | 24 hour urine collection | 24 hour urine collection container | X | OK | | |
| Protein, Total, Urine | TPU | 24 hour urine collection | 24 hour urine collection container | X | OK | | OK |
| Sodium, urine | NAUR | 24 hour urine collection or random urine | 24 hour urine collection container | X | OK | | OK |
| Thallium, urine | MOLT | 24 hour urine collection | 24 hour acid washed urine collection container | X | X | | |
| Urea Clearance | URCL | 24 hour urine AND serum | 24 hour urine container AND Gold top vacutainer | X | OK | OK | OK |
| Urea Nitrogen, Urine | UNU | 24 hour urine collection | 24 hour urine collection container | X | OK | OK | OK |
| Uric Acid, urine | UCAU | 24 hour urine collection | 24 hour urine collection container | X | OK | | OK |

| | | | | | | | |
|------------------------------|------|--------------------------|--|---|---|----|----|
| Vanillylmandelic Acid, urine | VMA | 24 hour urine collection | 24 hour urine collection container | | | X | OK |
| Zinc, 24 hour urine | ZINU | 24 hour urine collection | Acid washed 24 hour urine collection container collected | X | X | OK | |

Yellow shading = test that requires acid preservative