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| **Urinary Amino Acids** | | | |
| **Synonyms** | |  | UAA |
| **Clinical Indication** | |  | Urine amino acids is not recommended as a first line test for the investigation of inherited metabolic disorders and plasma is the preferred sample type.  Urine amino acid analysis is recommended in the investigation of the following disorders:   * Primary renal tubular disease including cystinuria, lysinuric protein intolerance, * Hartnup disease. * Renal tubular dysfunction secondary to another inherited metabolic disorder (IMD) including mitochondrial disease * Sulphite oxidase deficiency and molybdenum cofactor deficiency * Hypophosphatasia |
| **Part of Profile / See Also** | |  |  |
| **Request Form** | |  | Combined Pathology manual Blood form or ICE request |
| **Availability / Frequency of Analysis** | |  | Referred test: Analysed by Chemical Pathology, Great Ormond Street Hospital (8692), if specific criteria met. |
| **Turnaround Time** | |  | 3-6 weeks |
| **Patient Preparation** | |  | Collect sample as close to acute event as possible. If non-acute situation, an  early morning sample is preferred. Avoid faecal or bacterial contamination. |
| **Sample Requirements** | |  |  |
| **Specimen Type** |  | Urine |
| **Volume** |  | 5.0 ml |
| **Container** |  | White Capped Universal  **Sample should be transported to laboratory immediately. Samples that are received in the laboratory >1 hour post collection may not be suitable for analysis.** |
| **Reference Range & Units** | |  | Comprehensive interpretation provided by the reference laboratory. |
| **Interferences** | |  | Acidified samples are **not** acceptable.  Certain drugs (e.g. Ampicillin) may interfere with screening. Avoid faecal or  bacterial contamination. |
| **Interpretation & Clinical**  **Decision Value (if applicable)** | |  | Comprehensive interpretation and advice provided by the reference laboratory. |
| **References** | |  | <http://www.labs.gosh.nhs.uk/laboratory-services/chemical-pathology/tests/urine-amino-acids?msclkid=b0aec0aeb0f011ec8e453c8c79994ae1> |
| **Test code** | |  | UAA |
| **Lab Handling** | |  | Freeze primary sample at -20°C immediately. If a sample is received at over one hour since collection, still freeze the sample and enter the test code but also record on the form the time at which the sample was received. This information can then be passed on to the referral laboratory. Samples are sent at -20C by courier to Great Ormond Street Camelia Botnar Labs. |