| **Test** | **Sample Type** | **Special Handling** | **APEX Code** | **Tested** | **Destination** |
| --- | --- | --- | --- | --- | --- |
| 5 HIAA | 24 hr urine | Add 20ml of 50% HCL to container prior to collection. Confirm pH <4 prior to sending and state pH on form.  Contact lab prior to taking sample to ensure requirements have not changed  <http://www.beaumont.ie/media/Testing_Services_Offered1.pdf> | HIAA | M-F | HPLC Beaumont  01 7977333 |
| 7 Dehydrocholesterol | EDTA (2mL) | Contact lab prior to taking sample to ensure requirements have not changed  <https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/other-disorders/> | 7DHC | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| 17 OH Progesterone (Adults) | Serum | Spin and Separate and freeze | 17OHPA | M-F | Biochemistry, St. James’s |
| 17 OH Progesterone (Paeds) | Serum | Spin, separate and freeze  Phone St James to inform them it’s en route. When 17OHP is requested Testo, DHEAS and Andro is automatically ordered. Use MO to re print request with additional tests. | 170HPP | M-F | Biochemistry, St. James’s |
| AASA  (Alpha Aminoadipic Semialdehyde) | 500uL Urine | Spin and Separate and Freeze (Transport on dry ice)  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.amc.nl/web/laboratory-genetic-metabolic-diseases-lgmd/lgmd/alpha-aminoadipic-semialdehyde-a-asa.htm> | AASA | M-W | Dept of Clinical Chemistry & Paediatrics,  VU University Medical Centre  De Boelelann, 1105,1081 HU. Amsterdam, The Netherlands |
| ACE | Serum | Spin and Separate | ACE | M-F | Biochemistry, St. James’s |
| ACTH | EDTA | Spin and Separate and Freeze | ACTH | M-F | Biochemistry, St James’s |
| Acyl Carnitine | Guthrie Card | Room Temp. | CARA | M-F | Biochemistry, Temple St |
| Alcohol levels | Sodium Flouride | Spin and Separate | ALCS | **24/7** | Biochemistry, Mater |
| ALP Isoezymes | Serum | Spin and Separate and Freeze  <http://pathology.imperial.nhs.uk/index.php?page=biochemistry-core>  Contact lab prior to taking sample to ensure requirements have not changed | ALPI | M-W | Dr Alan Courtney  Special Proteins and Bone Metabolism lab  Clinical Biochemistry  North West London Pathology  Imperial College Healthcare NHS Trust  8th Floor Laboratory Block   Charing Cross Hospital  Fulham Palace Road  London W6 8RF |
| Aldolase | Serum | Spin and Separate | ALDOL | M-F | Eurofins SCDL |
| Aldosterone | EDTA | Spin and Separate and Freeze | ALDO | M-F | Biochemistry, St. James’s |
| Alpha1 Antitrypsin | Serum | Spin and Separate | AATB | M-F | Biochemistry, Beaumont |
| Alpha1 Antitrypsin Phenotype | Serum | Spin and Separate | AATP | M-F | RCSI, Beaumont |
| Alpha-feto protein (Adults) | Serum | Spin and Separate | AFPA | M-F | Biochemistry, St. James’s |
| Alpha-feto protein (Paeds) | Serum/Li Heparin | Spin and Separate | AFPP | M-F | Biochemistry, Crumlin |
| Alpha-feto protein  (amniotic fluid) | Amniotic fluid | <https://www.immqas.org.uk/pru.asp?S=348233353&C=1252&AID=51>  Contact lab prior to taking sample to ensure requirements have not changed | AFPAF | M-W | Protein Reference Unit & Immunology Department Laboratory Medicine Building North Lane Northern General Hospital Herries Road Sheffield S5 7AU  0114 226 9196 |
| Amino Acids (Blood) | Serum or Li. Hep | Spin and Separate | AA | M-F | Biochemistry, Temple St |
| Amino Acids (Urine) | Urine |  | AAU | M-F | Biochemistry, Temple St |
| Amino Acids (CSF) | CSF (250ul Plain Tube) |  | AAC | M-F | Biochemistry, Temple St |
| Ammonia | Lithium Heparin | Spin and Separate and keep in freezer until dispatched in frozen container | AMM | **24/7** | Biochemistry, Temple St |
| Aminophylline (Theophylline) | Serum | Spin and Separate | THEO | M-F | Biochemistry, St James’s |
| Antiphospholipid antibodies | Haematology Send Out | | | | |
| ANCA | Serum | Spin, separate and store at 4oC. Transport ASAP | ANCA | M-F | Immunology, St. James’s |
| Androstenedione | Serum | Spin and Separate | ANDRO | M-F | Biochemistry, St. James’s |
| Anti ovarian abs. | Serum | Spin and Separate | AOA | M-F | Eurofins SCDL |
| Anti-endomysial abs | Serum | Performed in James’s if tTG is positive.Cannot be ordered in MNCMS as a standalone test | | | Immunology, St. James’s |
| Anti-GAD antibodies | Serum | Spin and Separate | AGAD | M-F | Eurofins SCDL |
| Anti GBM | Haematology Send Out | | | | |
| Anti Islet cell antibodies | Serum | Spin and Separate | ICA | M-F | Eurofins SCDL |
| Beutler (see GAL-1-PUT) |  |  |  | M-F |  |
| B6 (Pyridoxine) | EDTA | Protect from light. Spin &separate. | B6 | M-T | Eurofins SCDL |
| Bicarbonate (TCO2) | Lithium Heparin | Spin and Separate | BIC | M-F | Mater Hospital |
| Biotinidase | Lithium Heparin  (0.5ml plasma) | Store at -20oC.  Contact lab prior to taking sample to ensure requirements have not changed  [file:///C:/Users/biolab/Downloads/Metabolic-Handbook%20(5).pdf](file:///C:\Users\biolab\Downloads\Metabolic-Handbook%20(5).pdf) | BIO | M-W | Department of Clinical Chemistry Sheffield Children’s NHS Foundation Trust Western Bank, Sheffield  S10 2TH  0044 114 2717445 |
| Blood Ketones  (BOH Butyrate) | Sodium Fluoride  (grey top) | Spin, Separate and Freeze immediately | BOHBH | M-F | Biochemistry, Temple St |
| BNP | EDTA | Send whole blood. Must be analysed within 4 hrs of blood draw so contact Mater and send urgently. | BNP | 24/7 | Biochemistry, Mater |
| BP3 (IGF-BP3) | Serum/Li Hep | Spin and Separate  Contact lab prior to taking sample to ensure requirements have not changed | BP3 | M-F | Biochemistry, Crumlin |
| Brivaracetam | Serum/Li Hep | Spin and Separate and Freeze  https://epilepsysociety.org.uk/sites/default/files/2020-12/TDM-SOP-SER-002\_\_v2.pdf | MISC | M-W | TDM Unit,  Chalfont Centre for Epilepsy, Chesham Lane,  Chalfont St Peter,  Bucks SL9 0RJ |
| C-Peptide | Serum | Spin and Separate and freeze | CPEPH | M-F | Biochemistry, Temple St |
| C3/C4 | Haematology Send Out | | | | |
| CA125 + HE4 | Serum | Spin and Separate | ROMA | M-F | Eurofins SCDL |
| CA 15-3 | Serum | Spin and Separate | CA153 | M-F | Biochemistry, St. James’s |
| CA 19-9 | Serum | Spin and Separate | CA199 | M-F | Biochemistry, St. James’s |
| Caffeine | Serum (no separator gel) | Spin and Separate  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.eurofins-biomnis.com/en/services/test-guide/8/> | CAFF | M-F | Biomnis |
| Carnitine (Total + Free) | Lithium Heparin | Spin and Separate  [file:///C:/Users/biolab/Downloads/Metabolic-Handbook%20(5).pdf](file:///C:\Users\biolab\Downloads\Metabolic-Handbook%20(5).pdf) | CART  CARF | M-W | Chemical Pathology,  Sheffield Children’s Hospital,  Western Bank, S10 2TH  0044 114 271 7404/7305/7306 |
| Carbamazepine (Tegretol) | Serum | Spin and Separate | CARB | M-F | Biochemistry, St James’s |
| Catecholamines | Urine (24hr) – adults only | Add 20ml of 50% HCl to container prior to collection. Confirm pH <4 prior to sending and state pH on form.  Contact lab prior to taking sample to ensure requirements have not changed | CAT | M-F | HPLC, Beaumont  01 7977333 |
| Catecholamines | Urine (Random) – paediatrics only | 50% HCl added to bring pH <4. Add slowly.  Contact lab prior to taking sample to ensure requirements have not changed | CATP | M-F | HPLC, Beaumont  01 7977333 |
| Ceruloplasmin | Serum | Spin and Separate | CER | M-F | Immunology, St. James’s |
| CEA | Serum | Spin and Separate | CEA | M-F | Biochemistry, St James’s |
| Cholesterol / Lipid (Adult) | Serum | Spin and Separate | LIPJ | M-F | Biochemistry, St James’s |
| Cholesterol/ Lipid (Paed) | Lithium Heparin | Spin and Separate | LIPT | M-F | Biochemistry, Temple St |
| Cholinesterase | Serum | Spin and Separate.  By prior arrangement only with St. James’s | CHOLI | M-F | Biochemistry, St. James’s |
| Clonazepam (Rivotril) | Serum | Spin and Separate and Freeze  <https://epilepsysociety.org.uk/sites/default/files/2020-12/TDM-SOP-SER-002__v2.pdf> | RIVO | M-W | TDM Unit,  Chalfont Centre for Epilepsy, Chesham Lane,  Chalfont St Peter,  Bucks SL9 0RJ |
| Copper | Special trace metal free bottle and needle required. | Spin and Separate  Contact lab prior to taking sample to ensure requirements have not changed | CU | M-F | Biochemistry, Tallaght  01 4143952 |
| Cortisol (adult) | Serum | Spin and Separate | CORTA | M-F | Biochemistry, St. James’s |
| Cortisol (Urine) | 24 hr urine | State urine volume and send aliquot | CORTU | M-F | Biochemistry, St. James’s |
| Cortisol (Paed) | Serum | Spin and Separate | CORTH | M-F | Biochemistry, Temple Street |
| Cyclosporin | EDTA | Do not Spin and Separate | CYCL | M-F | Based on clinician request |
| Cysteine (Part of Amino Acid Profile) | Urine (Spot) | Freeze ASAP | CYS | M-F | Biochemistry, Temple St |
| C1 Esterase Inhibitor | Serum | Spin and Separate | C1EI | M-F | Immunology, St. James’s |
| DHEAS | Serum | Spin and Separate | DHEAS | M-F | Biochemistry, St. James’s |
| Digoxin | Serum | Spin and Separate | DIG | M-F | Biochemistry, St James’s |
| Epanutin (Phenytoin) | Serum | Spin and Separate | PHENY | M-F | Biochemistry, St James’s |
| Epilim (Valproate) | Serum | Spin and Separate | VALP | M-F | Biochemistry, St James’s |
| Flecainide level | EDTA whole blood | Do not Spin | FLEC | M-F | Eurofins SCDL |
| Free Fatty Acids  (See Non-Esterified Fatty Acids) | EDTA | Spin, separate and freeze. Transport frozen.  Contact lab prior to taking sample to ensure requirements have not changed  <https://secure.newcastlelaboratories.com/test-directory/test/nefa-non-esterified-fatty-acids-plasma/> | NEFA | M-W | Department of Blood Sciences Level 3 Leazes Wing Royal Victoria Infirmary Queen Victoria Road Newcastle upon Tyne NE1 4LP |
| Free T3 | Serum | Spin and Separate | FT3 | M-F | Endocrinology, Tallaght |
| GAG – if family history.  MPS Mucopolysaccharides / Oligosaccharides / Sialic Acids / Glycoaminoglycans | EDTA 4ml | Ambient temp, do not separate – must arrive within 72 hrs of blood draw  Contact lab prior to taking sample to ensure requirements have not changed | MISC | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Galactose | Guthrie Card |  | GAL | M-F | Metabolic Lab, Temple St |
| Gal-1-Phosphate | Lithium heparin  **Gel samples are not suitable** | Do not Spin and Separate  The sample must be received within 24 hours of collection.  [file:///N:/Laboratory/Laboratory/NSBG-Handbook.pdf](file:///N:\Laboratory\Laboratory\NSBG-Handbook.pdf)  Contact lab prior to taking sample to ensure requirements have not changed | GAL1P | M-W | Pathology Reception,  Newborn Screening & Biochemical Genetics,  Paediatric Laboratory Medicine, Birmingham Children’s Hospital, Whittall Street, Birmingham,  B4 6DH |
| Gal-1-PUT (Beutler) | Lithium Heparin | Do not Spin and Separate. Must reach lab within max 48 hours  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.nbt.nhs.uk/severn-pathology/requesting/test-information/galactose-1-phosphate-uridyl-transferase-quantitative> | G1PUT | M-W | Newborn Screening Lab,  Pathology Sciences Laboratory, Southmead Hospital,  Westbury on Trym, Bristol,  BS10 5NB |
| Glutamine levels | Lithium Heparin | Spin and Separate | GLU | M-F | Metabolic Lab, Temple St |
| Glycogen Red Cell  (Not available to order on MNCMS) | Absolute minimum 5 mL Lihep blood.  1.3mls EDTA | Contact lab prior to taking sample to ensure requirements have not changed | MISC | M-W | Enzyme Unit,  Chemical Pathology,  Level 5, Camelia Botnar Lab,  Great Ormond Street Hosp,  London WC1N 3JH |
| Glycogen Storage Enzymes  (Not available to order on MNCMS) | 5mL EDTA Blood  1.3ml Li hep | Contact lab prior to taking sample to ensure requirements have not changed | MISC | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Glycosaminoglycan (GAGs) | Urine 5ml | Freeze | GAG | M-F | Metabolic Lab, Temple St |
| Growth Hormone (Paed) | Serum | Spin and Separate | GHH | M-F | Biochemistry, Temple Street |
| Growth Hormone (Adult) | Serum | Spin and Separate and Freeze. Send frozen | GHA | M-F | Biochemistry, St James’s |
| Homocysteine | Lithium Heparin | Spin & separate immediately &freeze. | HCYST | M-F | Metabolic Lab, Temple St |
| Hypoglycaemic Workup |  |  | Refer to WI-BIO-0009 | **24/7** | Biochemistry, Temple St |
| IgE | Serum/ Li Hep | Spin and Separate | IGEP | M-F | Biochemistry, Crumlin |
| IGF-BP3 | Serum/Li Hep | Spin and Separate  Contact lab prior to taking sample to ensure requirements have not changed | BP3 | M-F | Biochemistry, Crumlin |
| Immunoglobulins Adult | Serum | Spin and Separate | IG | M-F | Immunology, St. James’s |
| Immunoglobulins Paed | Serum | Spin and Separate | IMMP | M-F | Biochemistry, Crumlin |
| Immunoglobulin Subsets Adult and Paed | Serum | Spin and Separate | IGSUB | M-F | Immunology, St. James’s |
| Inhibin B | Serum | Spin and Separate and Freeze | INB | M-F | Eurofins SCDL |
| Islet Cell Antibodies | Serum | Spin and Separate | ICA | M-F | Eurofins SCDL |
| Insulin | Serum | Spin and Separate and Freeze ASAP. Send frozen | INS | M-F | Biochemistry, St James’s |
| Insulin Growth Factor | Serum | Spin and Separate and Freeze ASAP. Send frozen | IGF1 | M-F | Biochemistry, St. James’s |
| Iron Profile (Adult) | Serum | Spin and Separate | FE | M-F | Biochemistry, St. James’s |
| Iron Profile (Paed) | Lithium Heparin | Spin and Separate | MISC |  | Biochemistry, Crumlin |
| Keppra (Levetiracetam) | Serum | Spin and Separate. Send ASAP | KEPP | M-F | Eurofins SCDL |
| Lamotrigine (Lamictal) | Serum | Spin and Separate | LAM | M-F | Eurofins SCDL |
| Levetiracetam (Keppra) | Serum | Spin and Separate. Send ASAP | KEPP | M-F | Eurofins SCDL |
| Lipase | Serum | Spin and Separate. Send ASAP | Lipase | M-F | Eurofins SCDL |
| Lipids (Adults) | Serum | Spin and Separate | LIPJ | M-F | Biochemistry, St. James’s |
| Lipids (Paed) | Lithium Heparin | Spin and Separate | LIPT |  | Biochemistry, Temple St |
| Lithium | Serum | Spin and Separate | LI | M-F | Biochemistry, St. James’s |
| Lysosomal Enzymes  White Cell Enzyme Antibodies | EDTA  (4 paed tubes req.)  At least 5mls of EDTA blood required. | To reach the lab within 72 hrs.  Do not Spin and Separate.  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/lysosomal-storage-diseases/> | LE | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Mucopolysaccharides | Urine | To reach the lab within 72 hours of sampling.  <https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/mucopolysaccharidosis-screen/> | MUCO | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Non-Esterified Fatty Acids | EDTA  Serum  (min 1mL) | Spin, separate & freeze  Contact lab prior to taking sample to ensure requirements have not changed  <https://secure.newcastlelaboratories.com/test-directory/test/nefa-non-esterified-fatty-acids-plasma/> | NEFA | M-W | Dept of Blood Sciences  Level 3  Leazes Wing  Royal Victoria Infirmary  Queen Victoria Road  Newcastle Upon Yyne  NE1 4LP 0044 191 2820334 |
| Neurometabolic Screen  <https://www.uclh.nhs.uk/OurServices/ServiceA-Z/Neuro/NMU/Documents/Neurometabolic%20Unit%20User%20manual.pdf> | 3 x CSF samples:  1st: 0.5ml (HVA, 5-HIAA)  2nd: 0.5ml (5MTHF, PLP)  3rd: 1ml (pterin) | Contact despatch in Temple St for tubes req’d.  Dry ice needs to be ordered before samples are taken.  Tube 3 must contain 1mg of each preservative (DTE and DETAPAC). All CSF samples must be taken in correct order and frozen at the bedside on dry ice (@ -70oC).  Contact lab prior to taking sample to ensure requirements have not changed | NEUROT | M-W | Neurometabolic Unit (Box 105) Basement, Albany Wing  The National Hospital for Neurology and Neurosurgery  Queen Square  London  WC1N 3BG  0044 2078 373 611 |
| NT-proBNP | EDTA | Send whole blood. Must be analysed within 4 hrs of blood draw so contact Mater and send urgently. | NTBNP | 24/7 | Biochemistry, Mater |
| Oligosaccharides | Urine 3mL | Contact lab prior to taking sample to ensure requirements have not changed  <https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/mucopolysaccharidosis-screen/> | OS | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Organic Acids | Urine (min 5mL) | Freeze STAT | UORG | M-F | Biochemistry, Temple St |
| Osmolality - blood | Lithium heparin | Spin and Separate | OSM | **24/7** | Biochemistry, Temple St |
| Osmolality - urine | Urine |  | OSMU | **24/7** | Biochemistry, Temple St. |
| Oxcarbazepine (Trileptal) | Serum | Spin and Separate | MISC | M-W | TDM Unit,  Chalfont Centre for Epilepsy, Chesham Lane,  Chalfont St Peter,  Bucks SL9 0RJ |
| Paracetamol /Acetaminophen | Lithium heparin/serum | Spin and Separate | PARA | M-F | Biochemistry, Temple St. |
| Parathyroid Hormone Adult | Serum | Spin and Separate and Freeze | PTHA | M-F | St Vincent’s |
| Parathyroid Hormone Paed | Serum | Spin and Separate and freeze | PTHP | M-F | St Vincent’s |
| **Peroxisomal Disorders :**  Long Chain Fatty Acids  Phytanic Acid  DHAPAT | 5mL EDTA  5mL EDTA  5mL EDTA | Send primary - do not Spin and Separate. To reach the lab within 72 hours of draw  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/peroxisomal-disorders/> | PD | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Phenobarbitone Adult | Serum or Li.Hep | Spin and Separate | PHENOA | **24/7** | Biochemistry, Temple St |
| Phenobarbitone Paediatric | Serum or Li.Hep | Spin and Separate | PHENOP | **24/7** | Biochemistry, Temple St |
| Phenylalanine | Lithium Heparin | Spin and Separate | PHE | M-F | Biochemistry, Temple St |
| Phenytoin | Serum | Spin and Separate | PHENY | M-F | Biochemistry, St James’s |
| Phytanic acid | EDTA (5ml) | Do not Spin and Separate  Contact lab prior to taking sample to ensure requirements have not changed  [https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/peroxisomal-disorders/#](https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/peroxisomal-disorders/) | PHY | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Plasma Metanephrines | EDTA (5ml) | Contact lab prior to taking sample to ensure requirements have not changed | PLMETS | M-F | Biochemistry, Beaumont |
| Protein electrophoresis | Serum | Spin and Separate and store at 4oC. Send ASAP | EP | M-F | Immunology, St. James’s |
| PSA levels (Total + Free) | Serum | Spin and Separate | PSA | M-F | Biochemistry, St. James’s |
| Purine Screen | 2 - 5mls Urine | Store in fridge or freezer. Can thaw in post en route  Contact lab prior to taking sample to ensure requirements have not changed  <http://www.viapath.co.uk/our-tests/purine-pyrimidine-screen-urine> | PURU | M-W | Purine Research Lab,  Biochemical Sciences,  4th Floor, North Wing  St Thomas Hospital,  London,  SE1 7EH  Tel : 00442071881266 |
| Renin | 4 mL EDTA on ice to lab. | Spin and Separate and Freeze | REN | M-F | Biochemistry, St. James’s |
| ROMA | Serum | Spin and Separate | ROMA | M-F | Eurofins SCDL |
| Steroid profile | 20mL Urine (can be done on smaller volumes) | If baby is on steroids state this on the request form.  <http://www.viapath.co.uk/our-tests/urine-steroid-profile> | STERU | M-W | Biochemistry Laboratory,  King's College Hospital, Denmark Hill,  London.  SE5 9RS Tel : 00442077374000 |
| Tacrolimus (FK506) Prograf | EDTA |  | TAC | M-F | Based on clinician request |
| Tegretol (Carbamazepine) | Serum | Spin and Separate | CARB | M-F | Biochemistry, St James’s |
| Testosterone (Paeds) | Serum | Spin and Separate | MISC | M-F | Biochemistry, St James’s |
| TFT (for discordant results) | Serum | Spin and Separate | TFTM | M-F | Biochemistry, Mater |
| Theophylline | Serum | Spin and Separate | THEO | M-F | Biochemistry, St. James’s |
| Thiamine (B1) | EDTA whole blood | Sample needs to be protected from light | B1 | M-F | Eurofins SCDL |
| Thyroglobulin | Serum | Spin and Separate | TG | M-F | Biochemistry, St James’s |
| Thyroglobulin Antibodies | Serum | Spin and Separate | TGAB | M-F | Biochemistry, St James’s |
| Toxicology (urine) | Urine |  | DOA | M-F | Eurofins Biomnis |
| Thyroid antibody (TRab) | Serum | Spin and Separate and freeze | TRAB | M-F | Biochemistry, St James’s |
| Topamax (Topiramate) | Serum | Spin and Separate | TOP | M-F | Eurofins SCDL |
| Transferrin | Serum | Spin and Separate | TRAF | M-F | Biochemistry, St James’s |
| Transferrin Isoforms (Transferrin Glycoforms) | Serum | Spin and Separate  This test may be unreliable in neonates younger than three weeks due to the presence of maternal transferrin. Recent transfusion may invalidate the result.  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.uclh.nhs.uk/OurServices/ServiceA-Z/Neuro/NEURI/Documents/Neuroimmunology%20and%20CSF%20Laboratory%20User%20Handbook.pdf> | TRAFI | M-W | Dept of Neuroimmunology,  Institute of Neurology,  Queen Square House,  London  WC1N 3BG  00442078373611 |
| Trileptal (Oxcarbazepine) | Serum | Spin and Separate | MISC | M-W | TDM Unit,  Chalfont Centre for Epilepsy, Chesham Lane,  Chalfont St Peter,  Bucks SL9 0RJ |
| Tyrosine | Serum / Li Hep | Spin and Separate | TYR | M-F | Biochemistry, Temple St |
| Troponin I (Adult) | Lithium heparin | Spin and Separate. Must be analysed within 4hrs. Contact lab before sending | TROPI | **24/7** | Biochemistry, Mater  01-8032401 |
| Troponin I (Paed) | Lithium heparin | Spin and Separate. Must be analysed within 4hrs. Contact lab before sending | TROPP | **24/7** | Biochemistry, Tallaght  01-4143951 |
| Tryptase | Serum | Spin and Separate and freeze immediately. Samples should be collected up to 1 hr, 3-6 hrs, and 24hrs post event. Label each sample with time and sample type. Samples should be accompanied with relevant clinical information.. Samples can all be sent to St James toether. No requirement to send as they are received as not urgent | TRPT | M-F | Immunology, St James’s |
| Urinary Calcium | Urine |  | UCA | M-F | Biochemistry, Temple St. |
| Vitamin B1 (Thiamine) | EDTA whole blood | Sample needs to be protected from light. Spin and Separate | B1 | M-T | Eurofins SCDL |
| Vitamin B6 | EDTA | Protect from light. Spin  & Separate | B6 | M-T | Eurofins SCDL |
| Vitamin D | Serum | Spin and Separate | VITD | M-F | Biochemistry, St. Vincent’s |
| Valproate (Epilum) | Serum | Spin and Separate | VALP | M-F | Biochemistry, St James’s |
| VMA (HMMA) | See Catecholamines | Contact lab prior to taking sample to ensure requirements have not changed |  |  |  |
| VLCFA | 5mL EDTA | Do not Spin and Separate. Need 500ul of EDTA. If held over weekend spin and freeze plasma. If transporting same / next day transport at ambient temp.  Contact lab prior to taking sample to ensure requirements have not changed  <https://www.mangen.co.uk/healthcare-professionals/manchester-genetic-diagnostic-laboratory/biochemical-genetics/peroxisomal-disorders/> | VLCFA | M-W | Willink Biochemical Genetics Laboratory Genomic Diagnostics Laboratories  Manchester Centre for Genomic Medicine Manchester University  NHS Foundation Trust  6th Floor, Pod 1  St Mary's Hospital  Oxford Road  Manchester  M13 9WL  Telephone: 0161 70 12137/8 |
| Zinc | Blood (blue top) - Trace metal free bottle and needle required | Spin and Separate Plasma into trace metal free container  Contact lab prior to taking sample to ensure requirements have not changed | ZN | Every 4 weeks | Biochemistry, Tallaght |

**Additional Tests to be added to the next revision**

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| **TEST** | **SAMPLE TYPE** | **SPECIAL HANDLING** | **APEX CODE** | **DESTINATION** | **TRANSPORT REQUIREMENT** |
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