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| **Test Name:** | **Plasma C Peptide** |
| Referral Laboratory Name: | Blood Sciences, Royal Devon and Exeter |
| Laboratory Postage Address For Samples | Blood Sciences - Area A2Royal Devon and Exeter NHS Foundation TrustBarrack RoadExeterEX2 5DW |
| Telephone Number For Results | 01392 402935 |
| Contact Person Name, Telephone Number and Email Address | Mandy Perry, Quality Lead, Consultant Biochemist01392 402932mandy.perry@nhs.net |
| Laboratory Website Address | <https://www.exeterlaboratory.com/> |
| UKAS Number | 8210 |
| Is this test ISO accredited? | Yes |
| Patient Preparation: |  |
| Does the patient need to be fasting, to have stopped drugs or have any other specific requirements? | No |
| If a Blood Test: |  |
| What collection tube(s) can be used e.g. SST, EDTA, Lithium Heparin, Fluoride Oxalate or Trace Metal? | EDTA |
| Is a tube containing gel acceptable? | No |
| Are there any other sample handling requirements e.g. protect sample from light, transport on ice? | Must arrive in our laboratory within 24 h from collection. If the sample cannot be sent to us within 24 h from sample collection, centrifuge, aliquot and freeze sample and send specimen frozen |
| Is centrifugation and separation required, and if so is there a time limit? | If the sample cannot be sent to us within 24 h from sample collection, centrifuge, aliquot and freeze sample and send specimen frozen |
| Is haemolysis or lipaemia acceptable? | Yes: Bilirubin <855 µmol/L; Haemoglobin <0.186 mmol/L |
| If a Urine Test: |  |
| Random, 24hr or other collection time period? | n/a |
| Is a preservative required? (If so, what?) | n/a |
| Required pH of urine on receipt in laboratory or to be pH’d prior to storage/postage? | n/a |
| Other requirements | n/a |
| Volume/Storage/Postage: |   |
| Sample Volume - preferred and minimum | 500 µL |
| Sample Stability Info e.g. Room Temp, 4°C or -20°C | If the sample cannot be sent to us within 24 h from sample collection, centrifuge, aliquot and freeze sample and send specimen frozen |
| Sample Storage Requirements – for our laboratory prior to posting | If the sample cannot be sent to us within 24 h from sample collection, centrifuge, aliquot and freeze sample and send specimen frozen |
| Posting Requirements | To remain frozen upon receipt |
| Assay Information: |  |
| Assay Method | Electrochemiluminescence Immunoassay (ECLIA) |
| CE Marked? | Yes |
| EQA Scheme? | Yes - UKNEQAS |
| How often is EQA performed? | Monthly |
| Has this test had poor performance for EQA in the last year? | No |
| Please give details if yes to above question | n/a |
| Reference range(s) and Units | 3 – 13300 pmol/L – measuring rangeReport comment instead of ref range:For a healthy individual with a normal blood glucose, the C-Peptide reference range is 370-1470 pmol/L. During a hypoglycaemic episode, a C-Peptide concentration greater than 300 pmol/L is inappropriately high. C-peptide is considered supressed if less than 94 pmol/L. Indeterminate values are 94-300 pmol/L. |
| Turnaround time and/or set days of analysis | 7 days  |
| Length of sample storage by your laboratory post-analysis | 4 days |
| Cost of test | £11.85 |
| Analytical Sensitivity | 3 pmol/L |
| Analytical Specificity | Unaffected by icterus (bilirubin < 855 μmol/L or < 50 mg/dL), hemolysis (Hb < 0.186 mmol/L or < 0.3 g/dL), lipemia (Intralipid < 2000 mg/dL) and biotin (< 246 nmol/L or < 60 ng/mL). |
| Do you use NPEx for the electronic transmission of results for this test? | Yes |
| If you use NPEx please state a contact name and email address | Chris Carr – Pathology IT Managerrduh.pathIT@nhs.net |