

# **Section 9.5 – Examples of Practicals**

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## **Section 9.4 – Standard Operating Procedures Followed**

1. Thin Layer Chromatography
2. Plasma Free fatty acid analysis
3. Deproteinising of samples
4. Made PBS
5. Manual Nucleic acid extraction
6. PCR setup
7. Restriction enzyme digest
8. Agarose gel electrophoresis
9. Checking gel
10. DNA “clean-up” for sequencing
11. Sanger sequencing with a capillary gel electrophoresis

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## **Section 9.3 – Registrar Pack**

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# Section 9.2 – Standard Operating Procedures Written

See Addenda or download below:

[Extracting-Data-from-Trak-Results-Listing-SOPv1.2Download](#)

[Extracting-MRN-numbers-from-Hospital-folder-numbers-using-DieterDownload](#)

[Trakcare-Downtime-results-printing-procedure-SOP-v1.0Download](#)

[ChemHelp-SOPv11Download](#)

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# Section 9.1 – Methods and Practicals Performed

METHOD	Performed	Observed	Neither
Basic spectrophotometry	Yes		
Making solutions	Yes		
Standard curve	Yes		
pH measurement	Yes		
Agarose electrophoresis	Yes		
CZE		Yes	
Serum osmolality	Yes		
Glucose tolerance test	Yes		
Sweat test		Yes	
Creatinine-serum & urine	Serum – Yes		Urine
Total protein	Yes		
Bilirubin			X
Albumin	Yes		

Enzyme assay	Yes		
Enzyme kinetics	Yes		
Blood gases	Yes		
SDS electrophoresis			X
Solvent extraction	Yes		
Thin layer chromatography	Yes		
Radioimmunoassay			X
ELISA	Yes		
Porphyrin Lab		Yes	
Quality control	Yes		
Method comparison study	Yes		
Atomic absorption			X
PCR	Yes		
DNA extraction	Yes		

Table 9.1.1 – Methods Performed

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## **Total Protein assay – Bradford**

A practical experiment to illustrate the measurement of total protein in serum using the Bradford assay