

Wednesday 19 March 2025

Request under Freedom of Information Act 2000

Thank you for your request for information which we received on Wednesday 5 March 2025. I am pleased to confirm the following.

Specifically the lab testing method for determining HbA1c for all my tests, including information about the lab equipment and assay (if any), as part of investigating a blood condition I have and its effect on blood test results. Examples include:

Roche cobas c 513 with A1CX3 Tina-quant Hemoglobin A1cDx Gen.3

Siemens Atellica CH HbA1c Assay

Tosoh Automated Glycohemoglobin Analyzer HLC-723G8, software v5.24F, with TSKgel G8 HSi Column, Elution Buffers, and Hemolysis & Wash Solution

MKUH uses the following for HbA1c testing

Analyser: TOSOH G11 Automated HPLC analyser

Method: Non-Porous Cation exchange high performance liquid chromatography (HPLC)

Sample type: EDTA

The reagents utilised are as follows

- Buffer 1: Low ionic strength buffer. Elutes off weak bound fraction like HbA1a and HbA1b.
- Buffer 2: Elutes off HbF, I-A1c and s-A1c.
- Buffer 2&3 (40:60 Ratio): Elutes HbA
- Buffer 3: Elutes off all remaining fractions
- Haemolysis & Wash: Responsible for haemolysing red cells and release of haemoglobin. Used on board for the dilution of whole blood samples and for manual dilution of small volume samples.

If you are unhappy with the information received in response to this request, please address your complaint to the Patient Affairs Office at Milton Keynes Hospital NHS Foundation Trust, Standing Way, Eaglestone, Milton Keynes MK6 5LD. If, after exhausting our internal process, you are still unhappy with the information received, you may write to the Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire SK9 5AF.

If you need any further assistance, please do not hesitate to contact us at the address above.

Yours sincerely

Freedom of Information Co-ordinator
For and on behalf of Milton Keynes Hospital NHS Foundation Trust

Any re-use of this information will be subject to the
'Re-use of Public Sector Information Regulations' and best practice.