

UK NEQAS Haematology
SURVEY 2306DL: AUTOMATED DIFFERENTIAL LEUCOCYTE COUNT
DISTRIBUTION DATE: 4th December 2023
CLOSING DATE: 23:59 (GMT); 12th December 2023

1.0 Distribution Package

Distribution 23L includes the following surveys:

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| 1. Full Blood Count | 4. Abnormal Haemoglobins, Hb A2, Hb F & Hb S |
| 2. Automated Differential Leucocyte Count | 5. Blood Films for Morphology |
| 3. Erythrocyte Sedimentation Rate | 6. Manual Differential Leucocyte Count |

A full package comprises a plastic postal bag, containing documentation and a moulded plastic specimen carrier comprising a transparent side holding vials of survey material and/or a slide carrier and an absorbent side that will absorb up to 50ml of liquid, i.e. the entire contents of the package, in the event of a breakage.

Specimens are only included for the tests for which you are registered. If you do not receive the expected combination of specimens, notify us immediately so that appropriate action can be taken.

Repeat specimens may be requested by Email: haem@ukneqas.org.uk or Tel: +44 (0)1923 587111

2.0 Information required for Control of Substances Hazardous to Health (COSHH)

This information is printed on a separate information sheet and should be reviewed by your COSHH assessor for consideration of any changes necessary to your local work practices.

3.0 Use of packaged material

This material is for use in External Quality Assessment Surveys to assess laboratory performance.

4.0 Automated Differential Leucocyte Count Survey 2306DL

This survey contains preserved whole blood specimens **2306DL*1** and **2306DL*2**. The * in the specimen number will be replaced by the matrix letter. You will receive material appropriate for your registered instrument(s) as shown in the table below. Test by the appropriate instrument(s).

For instruments that provide both a Corrected and Uncorrected WBC we advise that you report the Corrected WBC.

Matrix	Instrument
A	Sysmex K1000, KX21, K4500, pocH-100i, XP-300, Abbott Cell-Dyn 1200,1600,1700, Emerald 18, Samsung LABGEO HC10
B	Horiba Micros, Horiba Micros CRP, Diatron Abacus Junior 5, Diatron Abacus 380, Nihon Kohden 3 population. Genrui KT-6300
C	Abbott Cell-Dyn Sapphire, Ruby, Emerald 22, Emerald 22 AL, Alinity Hq, Diatron Abacus 5, Siemens Advia 560
D	Siemens ADVIA 120, 2120, 2120i
E	Beckman Coulter GenS, LH series, Unicell DxH 600, 680T, 800, 900
G	Horiba Pentra series, Horiba Pentra DX series, Horiba Pentra DF series, Horiba DX Nexus series, Horiba Yumizen H500, H550, H1500 and H2500 series, Beckman Coulter AC*T5 Diff
J	Sysmex XE, XN and XS series, Mindray BC-5 Series and BC-6 & 7 Series
K	OLO E-1
M	Beckman Coulter Unicell DxH 500, 520, 560 AL

Specimen handling and disposal

- On receipt, vials should be stored at 2 - 8°C until tested
- Allow the vials to equilibrate to room temperature for 15 minutes before mixing.
- **Mix manually** by rolling the vial backwards and forwards between the hands occasionally inverting the vial. Do not shake. Continue mixing for 2 – 3 minutes until all red cells are uniformly suspended. Do not use a roller or other mechanical mixer.
- **Abbott instruments** (except Alinity Hq): analyse the specimens in the QC mode as instructed by the manufacturer.*
- **Abbott Alinity Hq instruments:** analyse the specimens in the normal patient mode as instructed by the manufacturer.*
- **Abbott Cell-Dyn Ruby instruments:** report the WBC from the NOC mode as instructed by the manufacturer.*
- **HORIBA Yumizen H500 instruments:** analyse the specimens in the EQC Control mode as instructed by the manufacturer.*
- **HORIBA Yumizen H550 instruments:**
 - v3 and below: analyse the specimens in the QC Control mode as instructed by the manufacturer. *
 - Upwards of v3: analyse the specimens in the EQC control mode as instructed by the manufacturer. *
- **HORIBA Yumizen H1500/2500 instruments:** analyse the specimens in the Control mode selecting the Sample type NEQAS and the Test DIF, as instructed by the manufacturer.*
- **Mindray BC-5 Series and BC-6 & 7 Series instruments:** analyse the specimens using the QC mode as instructed by the manufacturer to obtain a differential count.*
- **Sight Diagnostics OLO E-1 instruments:** analyse the specimens in the proficiency testing (PT) mode as instructed by the manufacturer. *
- **Sysmex XN and XNL instruments:** analyse the specimens using the QC mode 1, 2 or 3 (do not use Other) to obtain a differential count.
- **Sysmex XE and XS instruments:** analyse the specimens using the QC mode as instructed by the manufacturer to obtain a differential count.*
- **Siemens ADVIA 120, 2120 and 2120i instruments:**
 - Report the total WBC from the PEROX channel, PEROX WBC (WBCP)
 - Report the differential WBC as reported from the analyser as instructed by the manufacturer.*
- **Siemens ADIVA 2120 & 2120i instruments:** switch off reporting of nRBC when processing the UK NEQAS Haematology ADLC specimens as instructed by the manufacturer.*
- **Siemens ADVIA 560:** analyse the specimens using the QC mode as instructed by the manufacturer. Instructions from Siemens to follow.
- **All other instrument users:** analyse the specimens using the normal patient mode.
- The material should be handled and discarded as patient material

* The manufacturer's document(s) can be downloaded from the UK NEQAS website <https://www.ukneqash.org/documents.php>

5.0 Return of results

- Return your results on line at www.ukneqash.org/sampleentry or by email to haem@ukneqas.org.uk providing your PRN.
- For instruments that provide a 3-part differential, enter;
 - Neut (Gran)
 - Lym
 - Mon (MID, MXD)
- If you find the specimen quality unsatisfactory, tick the 'unsatisfactory' box and note the details in the Comment box.

6.0 Next Distribution:

The next Automated Differential Leucocyte Count Survey (2401DL) is scheduled for 5th of February 2024.