

Low Level Leucocyte Enumeration Programme

All Participant Report

Distribution - 232405

Sample - RBC727

Participant ID -

Date Issued - 04 December 2023

Closing Date - 05 January 2024

Machine Used -

Trial Comments

This exercise was issued to 109 participants of which 103 (95%) returned results at the time of report generation.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of filtered blood from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1 FACSLytic	16.11	16.40	2.08

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1 FACSLytic	-0.14	Satisfactory	12	0	0

*z Score Limits Definitions

Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.

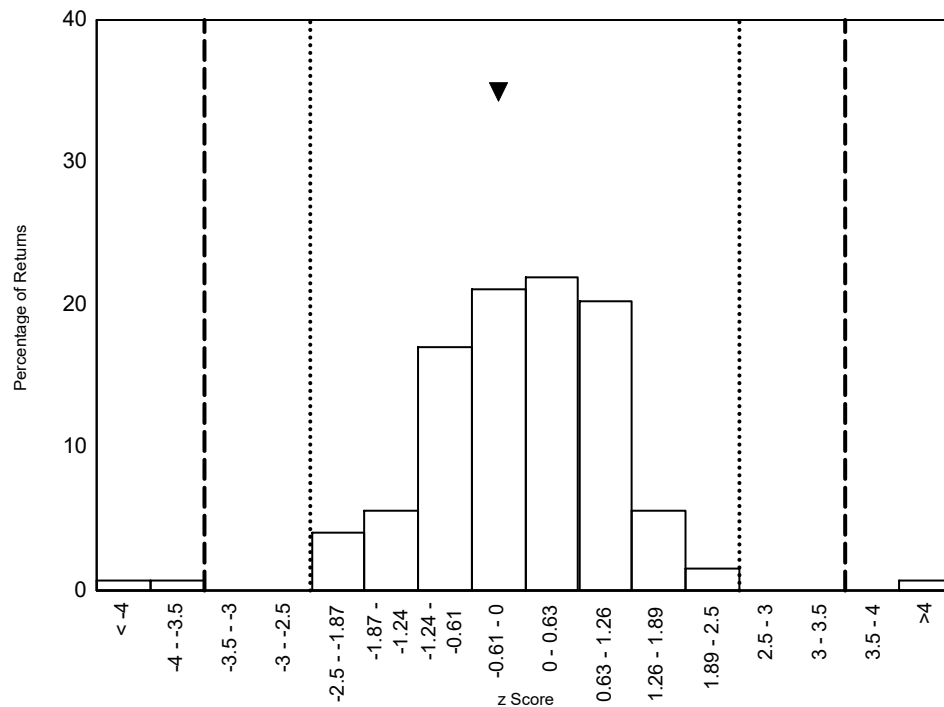


Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1 FACSLytic

Please note ▼ denotes your result

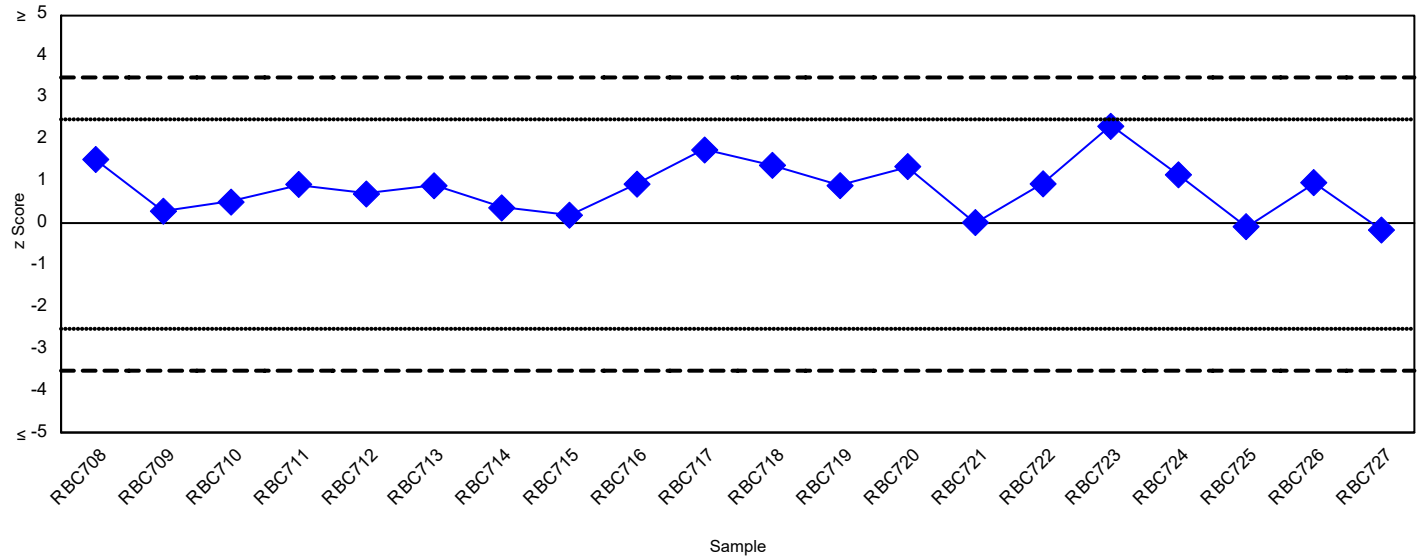


Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

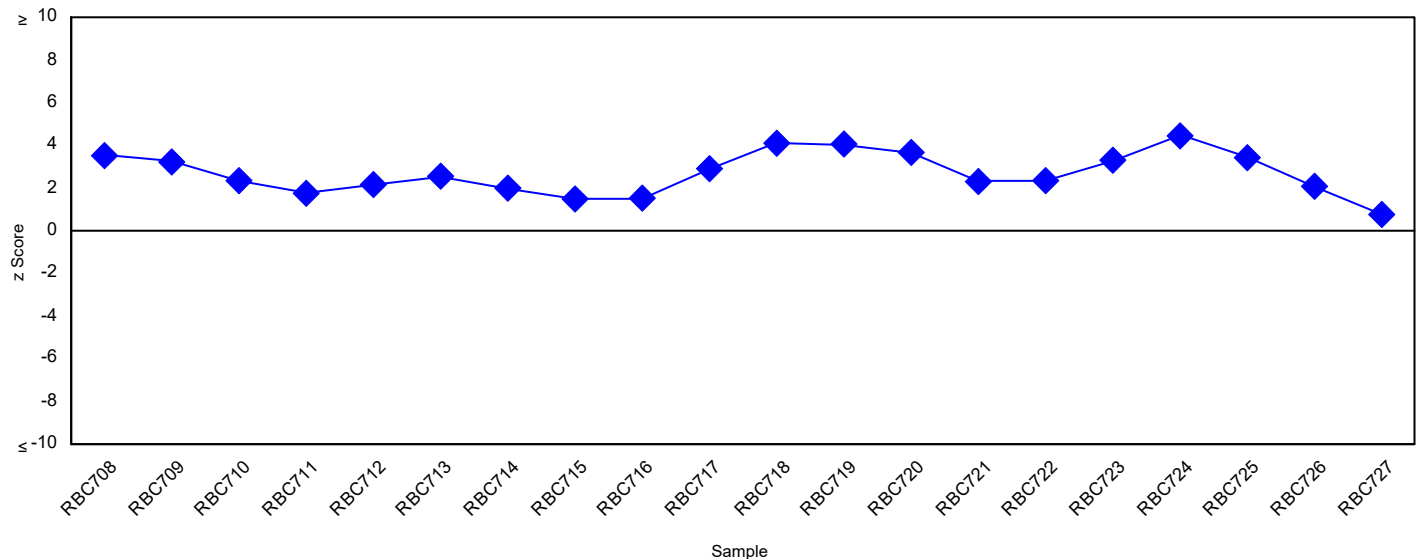
Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	88	16.82	1.74
Leukosure	22	14.97	1.50

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	24	16.91	1.58
FACSLytic	25	17.60	1.77
Navios	25	15.67	2.49

Low Level Leucocyte Enumeration Programme

Distribution - 232405

Sample - RBC728

Participant ID -

Date Issued - 04 December 2023

Closing Date - 05 January 2024

Machine Used -

Trial Comments

This exercise was issued to 109 participants of which 103 (95%) returned results at the time of report generation.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of filtered blood from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

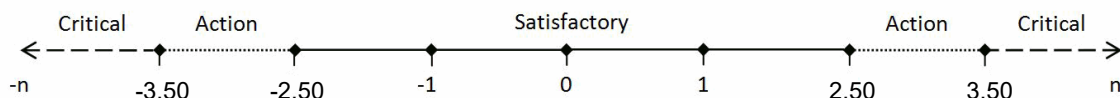
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1 FACSLytic	22.41	17.52	2.88

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1 FACSLytic	1.70	Satisfactory	12	0	0

*z Score Limits Definitions

Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.

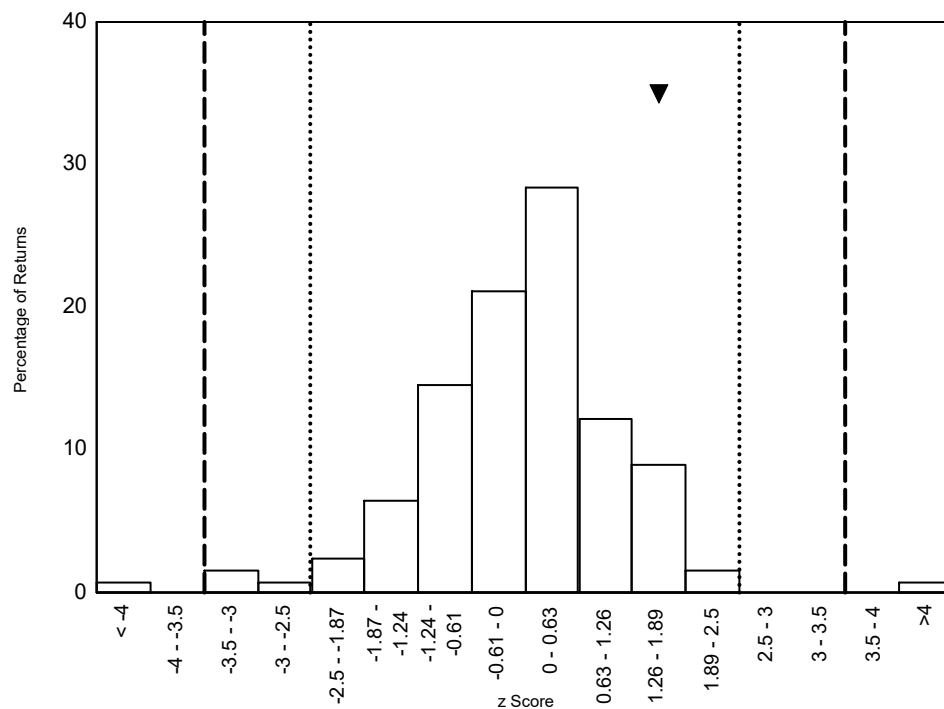


Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1 FACSLytic

Please note ▼ denotes your result

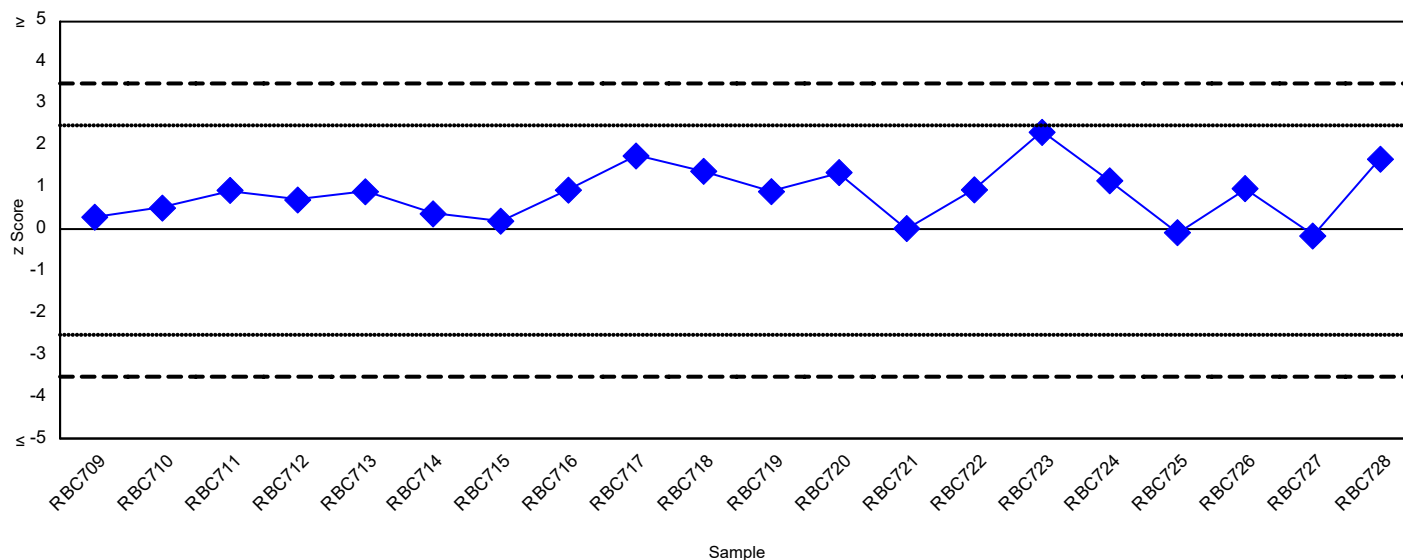


Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

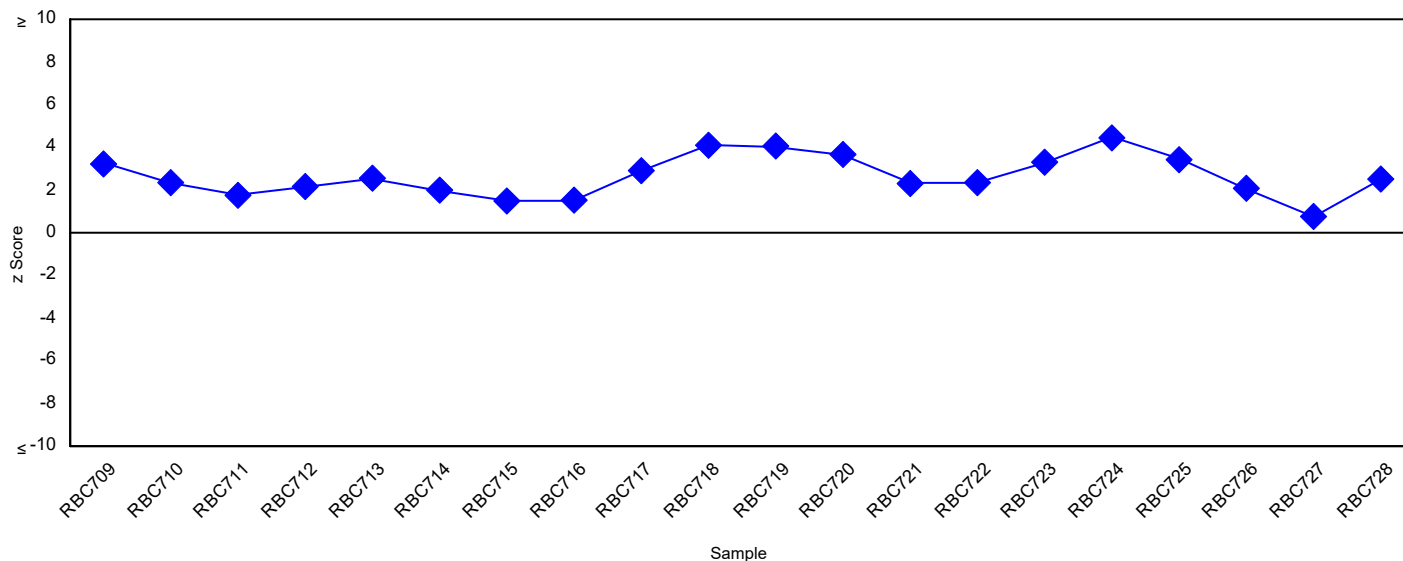
Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	88	17.91	2.50
Leukosure	22	16.58	3.57

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	24	17.99	2.03
FACSLytic	25	18.66	2.34
Navios	25	17.28	3.23

Low Level Leucocyte Enumeration Programme

Distribution - 232405

Sample - RBC729

Participant ID -

Date Issued - 04 December 2023

Closing Date - 05 January 2024

Machine Used -

Trial Comments

This exercise was issued to 109 participants of which 103 (95%) returned results at the time of report generation.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of filtered blood from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

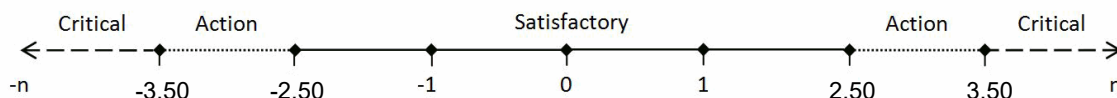
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1 FACSLytic	3.80	3.17	0.58

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1 FACSLytic	1.09	Satisfactory	12	0	0

*z Score Limits Definitions

Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.

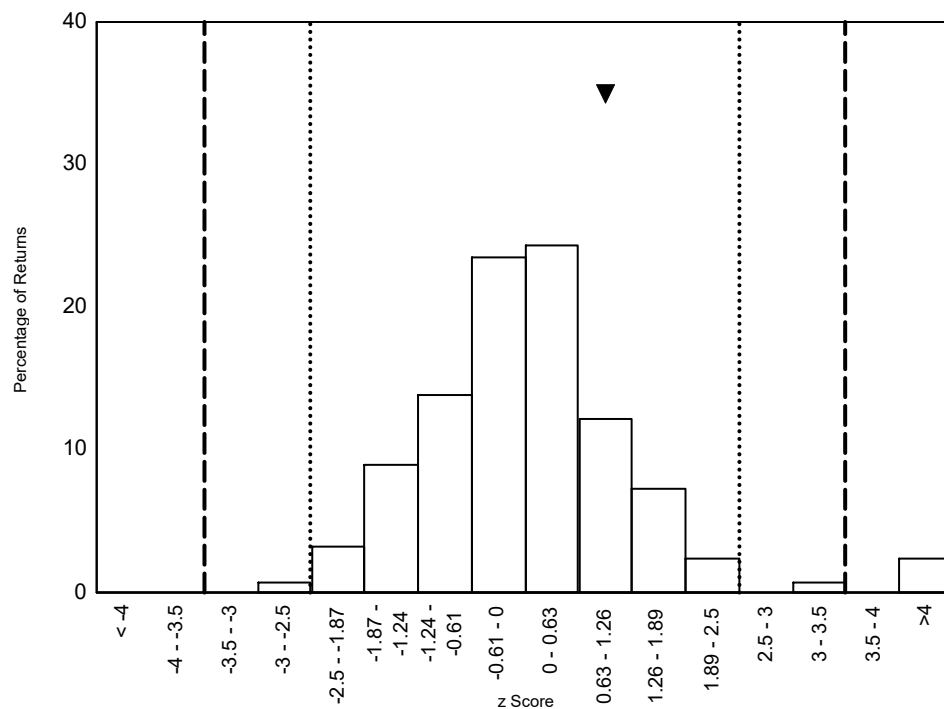


Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1 FACSLytic

Please note ▼ denotes your result

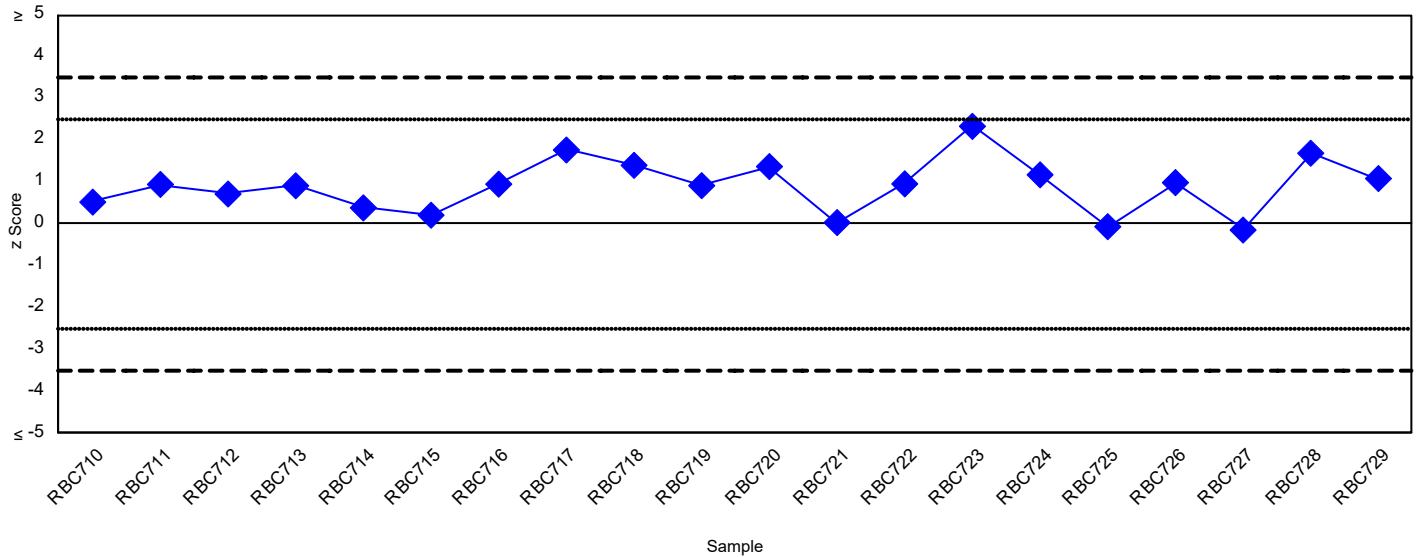


Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

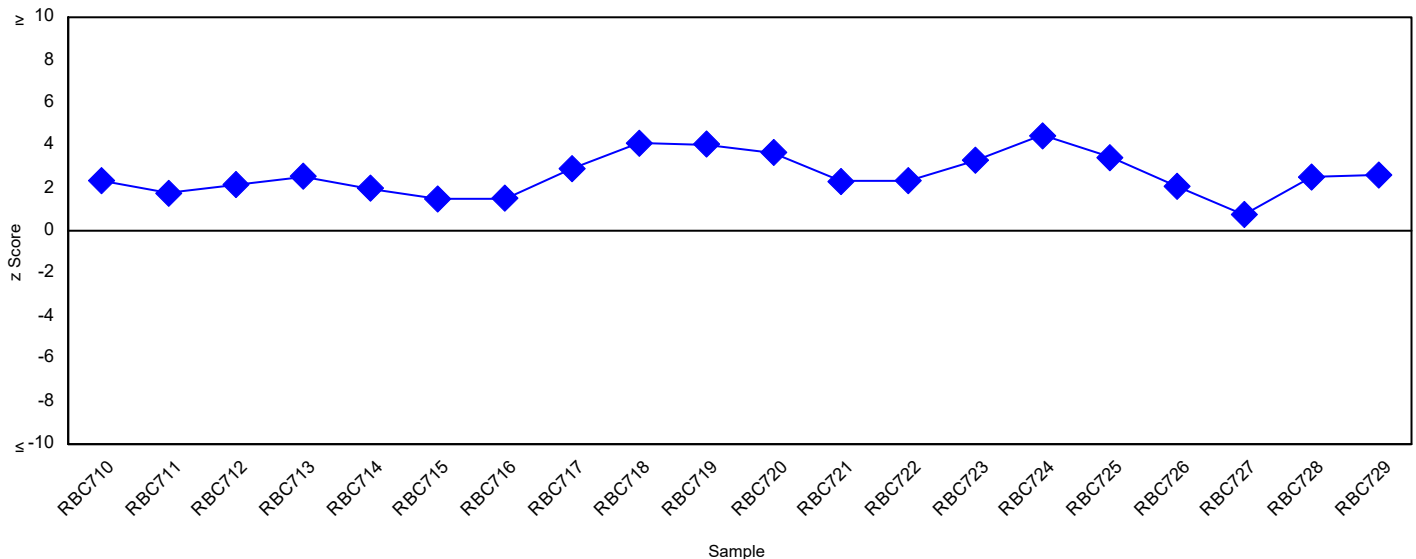
Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	88	3.24	0.49
Leukosure	22	2.95	0.61

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	24	3.24	0.63
FACSLytic	25	3.28	0.33
Navios	25	3.19	0.73

Low Level Leucocyte Enumeration Programme

Distribution - 232405

Sample - PLT727

Participant ID -

Date Issued - 04 December 2023

Closing Date - 05 January 2024

Machine Used -

Trial Comments

This exercise was issued to 109 participants of which 103 (95%) returned results at the time of report generation.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of platelets from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

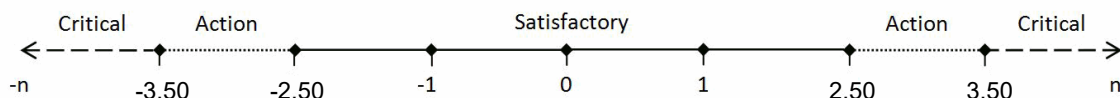
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1 FACSLytic	0.95	0.92	0.26

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1 FACSLytic	0.15	Satisfactory	12	0	0

*z Score Limits Definitions

Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.

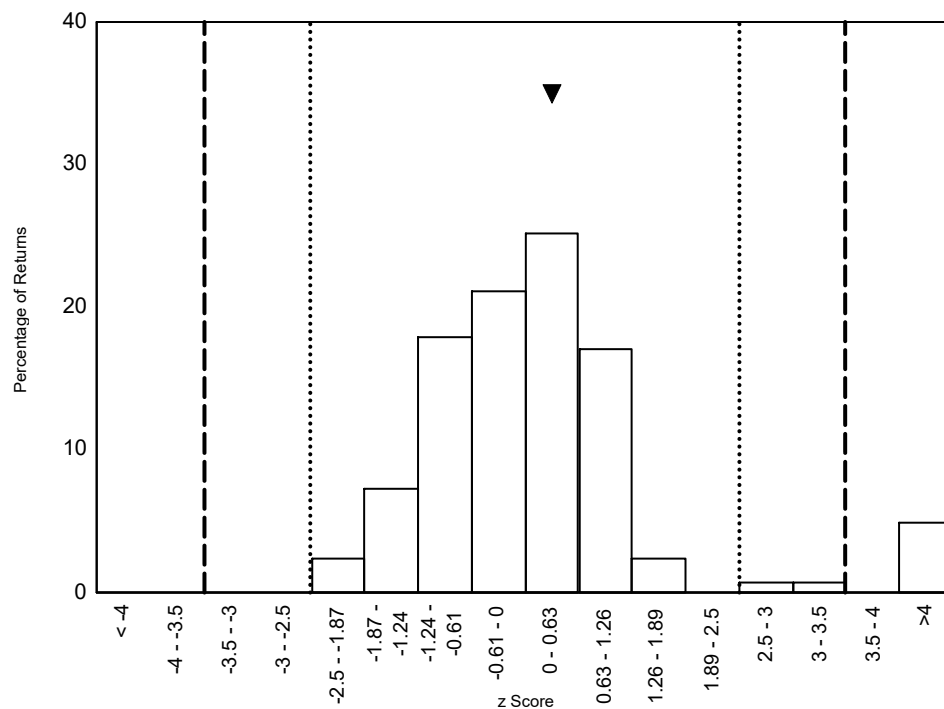


Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1 FACSLytic

Please note ▼ denotes your result

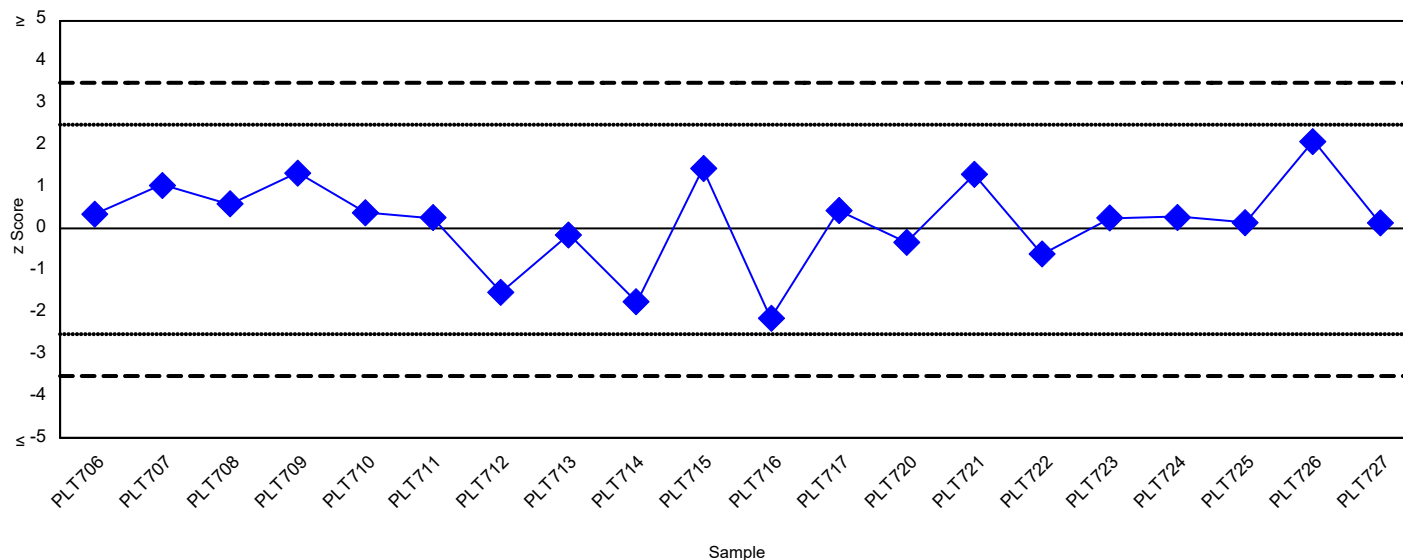


Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

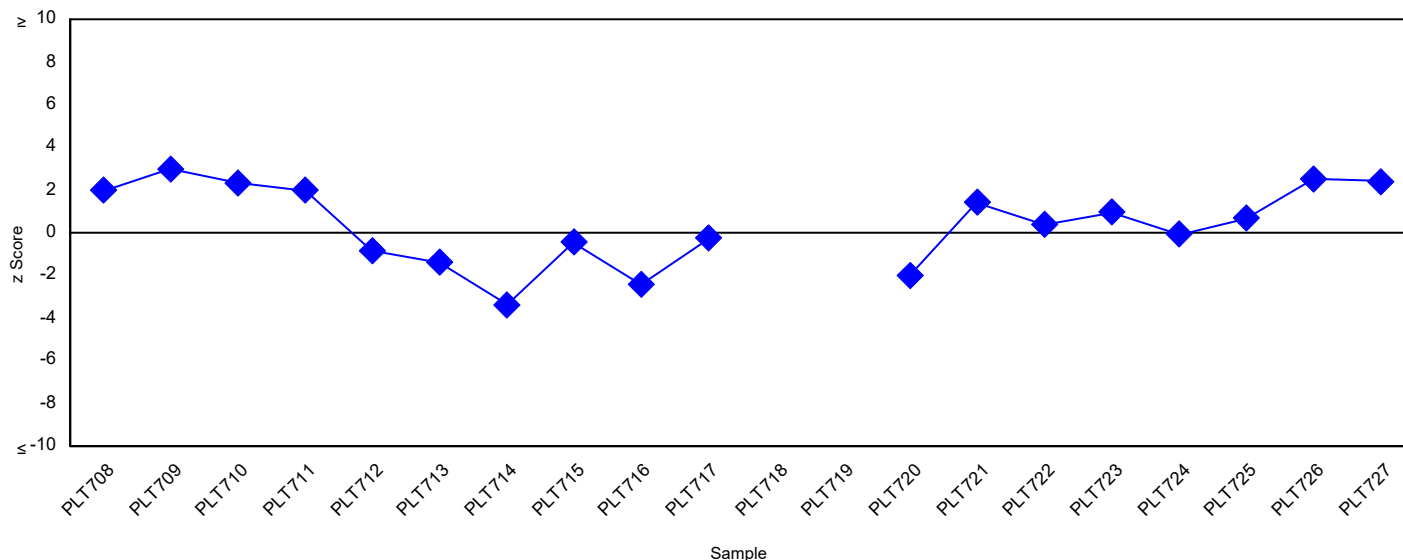
Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	88	0.90	0.22
Leukosure	22	0.88	0.38

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	24	0.93	0.24
FACSLytic	25	0.88	0.20
Navios	25	0.94	0.40

Low Level Leucocyte Enumeration Programme

Distribution - 232405

Sample - PLT728

Participant ID -

Date Issued - 04 December 2023

Closing Date - 05 January 2024

Machine Used -

Trial Comments

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Sample Comments

The sample was manufactured by UK NEQAS using a sample of platelets from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

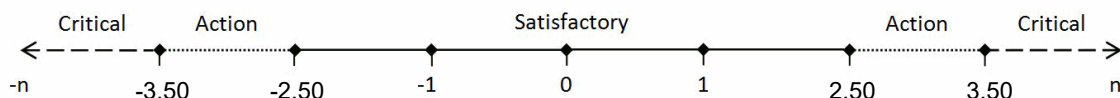
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1 FACSLytic	26.74	25.02	2.15

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1 FACSLytic	0.80	Satisfactory	12	0	0

*z Score Limits Definitions

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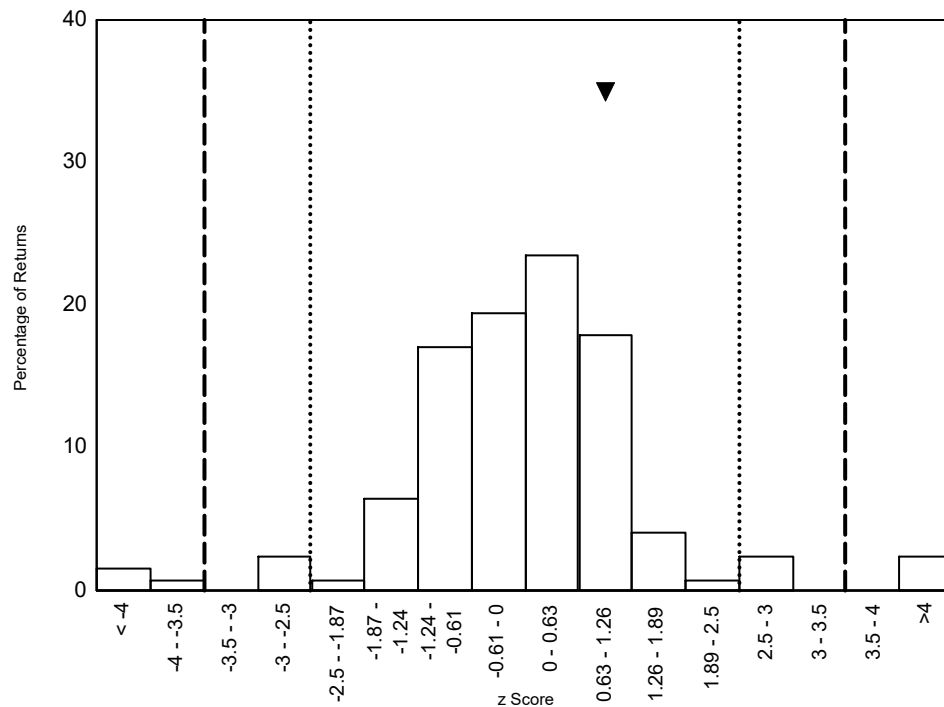


Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1 FACSLytic

Please note ▼ denotes your result

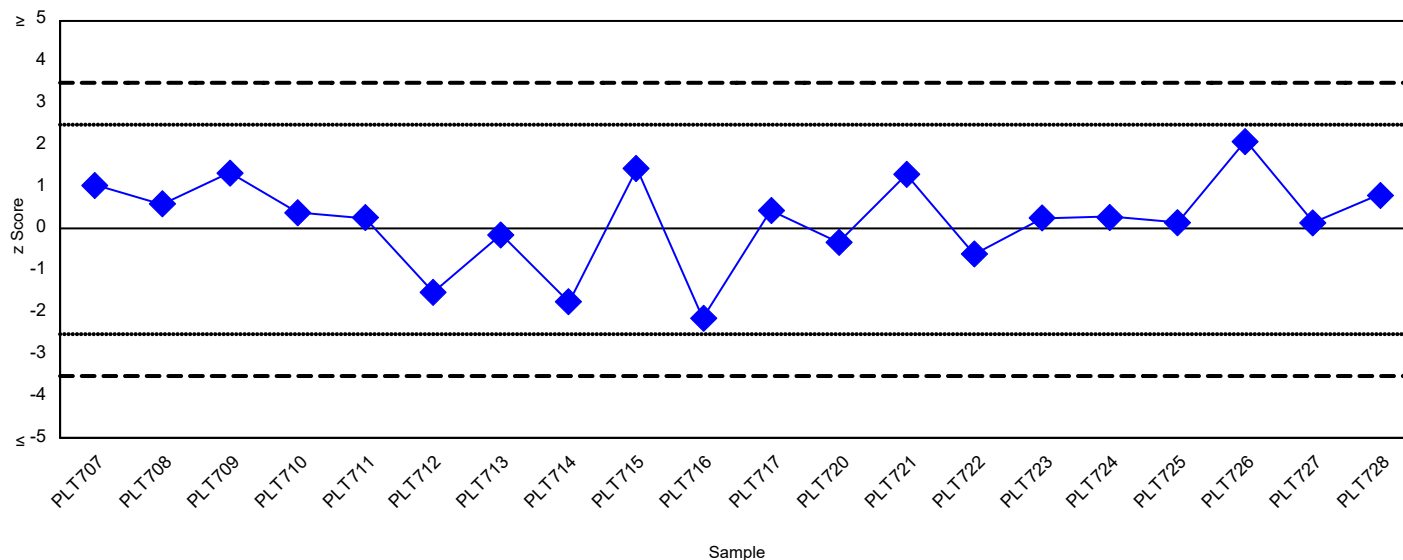


Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

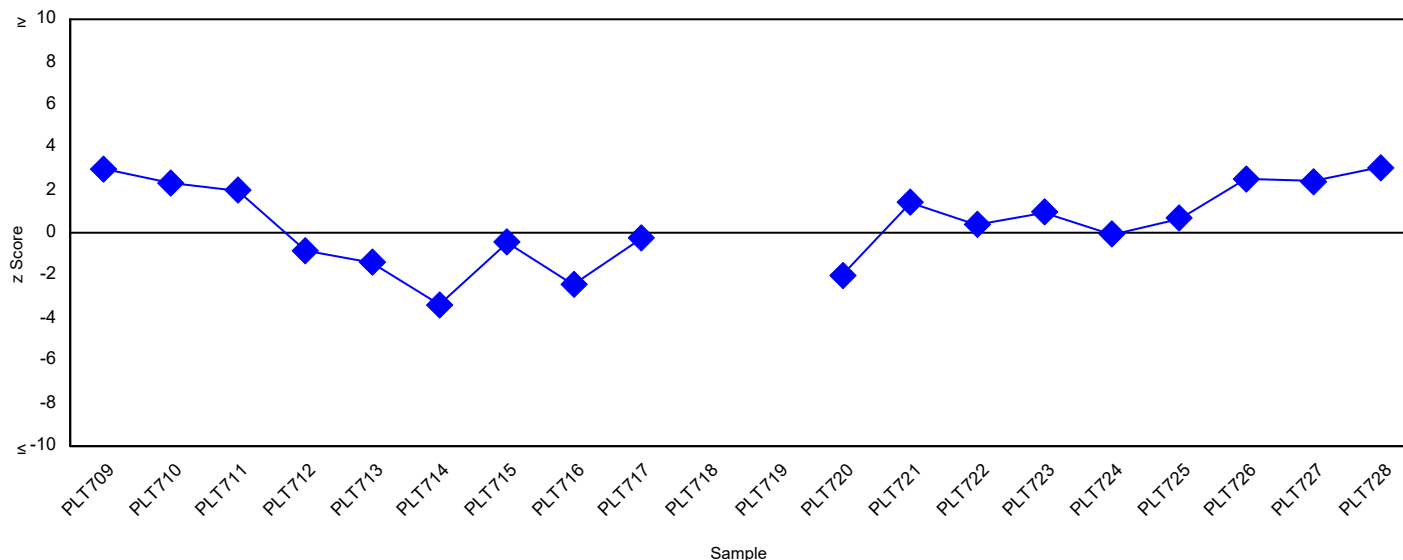
Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	88	25.29	1.73
Leukosure	22	23.56	2.27

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	24	25.47	1.57
FACSLytic	25	24.68	2.24
Navios	25	25.25	2.51

Low Level Leucocyte Enumeration Programme

Distribution - 232405

Sample - PLT729

Participant ID -

Date Issued - 04 December 2023

Closing Date - 05 January 2024

Machine Used -

Trial Comments

This exercise was issued to 109 participants of which 103 (95%) returned results at the time of report generation.

Sample Comments

The sample was manufactured by UK NEQAS using a sample of platelets from an anonymous donor which was stabilised and spiked with stabilised buffy coat.

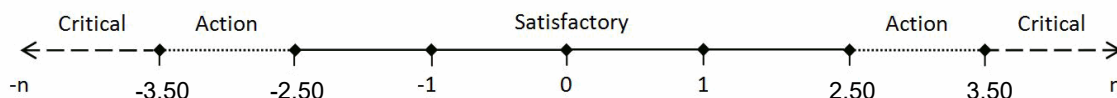
Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
Machine 1 FACSLytic	6.29	5.29	0.87

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
Machine 1 FACSLytic	1.15	Satisfactory	12	0	0

*z Score Limits Definitions

Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.

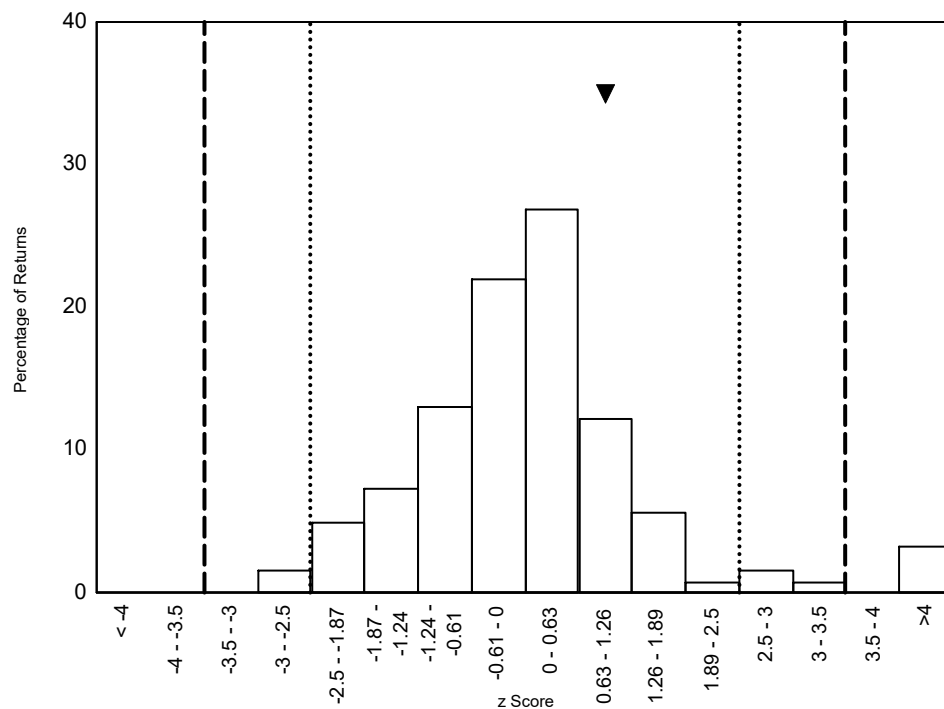


Low Level Leucocyte Enumeration Programme

Histograms of Participant z Scores

Absolute Values (cells/ μ L) - Machine 1 FACSLytic

Please note ▼ denotes your result

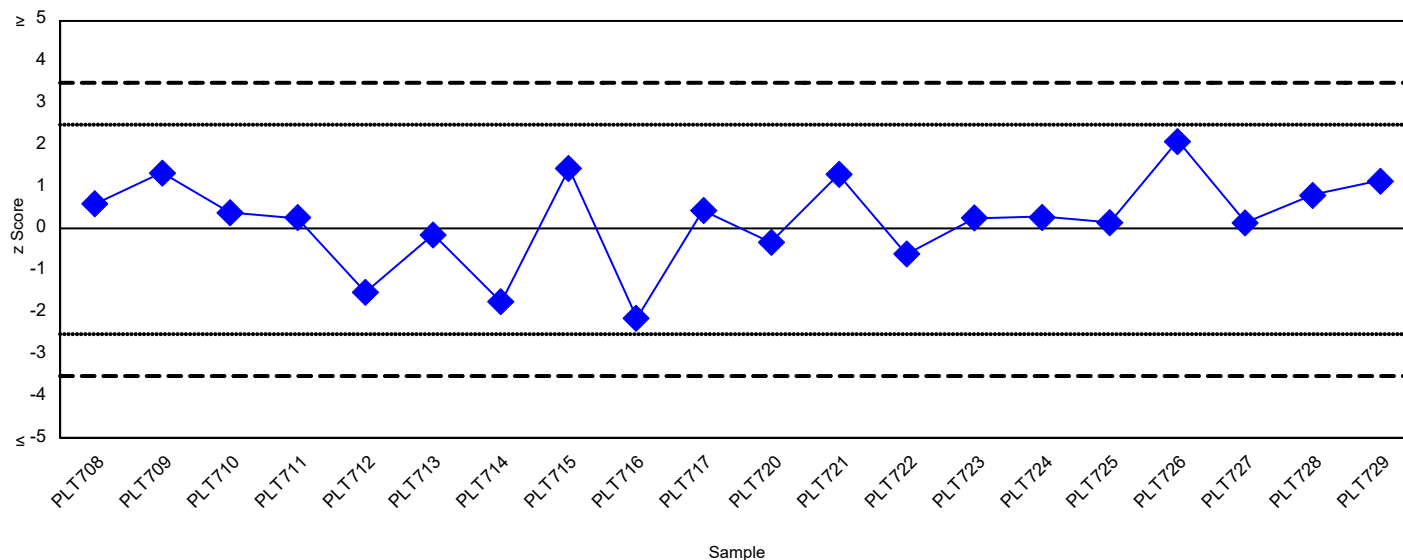


Low Level Leucocyte Enumeration Programme

Shewhart Control Charts

(Please note each data point represents a single sample)

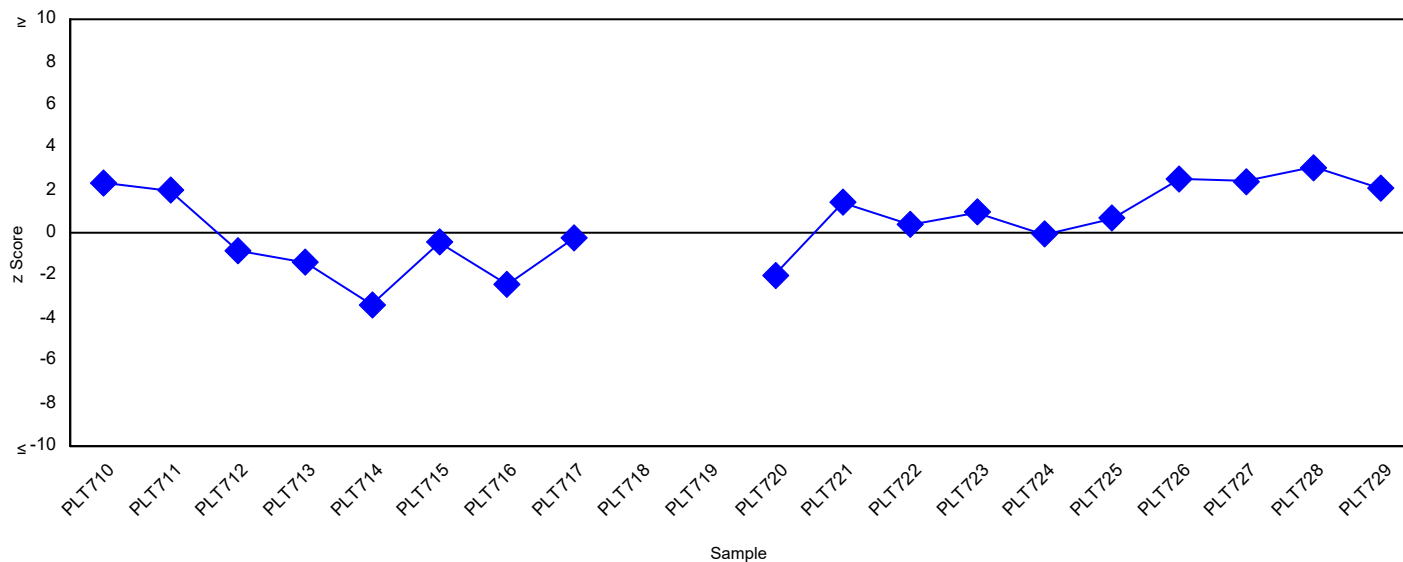
Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Cusum Control Charts

(Please note each data point represents the sum of the z scores of the current sample and the two previous samples)

Absolute Values (cells/ μ L) - Machine 1 FACSLytic



Low Level Leucocyte Enumeration Programme

Staining Method Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
BD Leucocount	88	5.32	0.81
Leukosure	22	5.18	1.14

Flow Cytometer Specific Statistics

(Please note only groups of >20 returns are displayed)

Method	Absolute Count Values (cells/ μ L)		
	Returns	Robust Mean	Robust SD
FACSCanto II	24	5.59	1.02
FACSLytic	25	5.27	0.37
Navios	25	5.28	0.89

Information with respect to compliance with standards BS EN ISO/IEC 17043:2010

4.8.2 a) The proficiency testing provider for this programme is:

UK NEQAS for Leucocyte Immunophenotyping

Pegasus House, 4th Floor Suite

463A Glossop Road

Sheffield, S10 2QD

United Kingdom

Tel: +44 (0) 114 267 3600

e-mail: amanda.newbould@ukneqasli.co.uk

4.8.2 b) The coordinators of UK NEQAS LI programmes are Mr Liam Whitby (Director) and Mr Stuart Scott (Centre Manager).

4.8.2 c) Person(s) authorizing this report:

Mr Liam Whitby (Director) or Mr Stuart Scott (Centre Manager) of UK NEQAS LI.

4.8.2 d) No activities in relation to this EQA exercise were subcontracted.

4.8.2 g) The UK NEQAS LI Confidentiality Policy can be found in the Quality Manual which is available by contacting the UK NEQAS LI office. Participant details, their results and their performance data remain confidential unless revealed to the relevant NQAAP when a UK participant is identified as having performance issues.

4.8.2 i) All EQA samples are prepared in accordance with strict Standard Operational Procedures by trained personnel proven to ensure homogeneity and stability. Where appropriate/possible EQA samples are tested prior to issue. Where the sample(s) issued is stabilised blood or platelets, pre and post stability testing will have proved sample suitability prior to issue.

4.8.2 l), n), o), r) & s) Please refer to the UK NEQAS LI website at www.ukneqasli.co.uk for detailed information on each programme including the scoring systems applied to assess performance (for BS EN ISO/IEC 17043:2010 accredited programmes only). Where a scoring system refers to the 'consensus result' this means the result reported by the majority of participants for that trial issue. Advice on the interpretation of statistical analyses and the criteria on which performance is measured is also given. Please note that where different methods/procedures are used by different groups of participants these may be displayed within your report, but the same scoring system is applied to all participants irrespective of method/procedure used.

4.8.2 m) We do not assign values against reference materials or calibrants.

4.8.2 q) Details of the programme designs as authorized by The Steering Committee and Specialist Advisory Group can be found on our website at www.ukneqasli.co.uk. The proposed trial issue schedule for each programme is also available.

4.8.2 t) If you would like to discuss the outcomes of this trial issue, please contact UK NEQAS LI using the contact details provided. Alternatively, if you are unhappy with your performance classification for this trial, please find the appeals procedure at www.ukneqasli.co.uk/contact-us/appeals-and-complaints/

4.8.4) The UK NEQAS LI Policy for the Use of Reports by Individuals and Organisations states that all EQA reports are subject to copyright, and, as such, permission must be sought from UK NEQAS LI for the use of any data and/or reports in any media prior to use. See associated policy on the UK NEQAS LI website: <http://www.ukneqasli.co.uk/eqa-pt-programmes/new-participant-information/>