

CD34 Stem Cell Programme
All Participant Report

Sample - 234

Distribution - 161706

Participant ID - 4XXXX

Date Issued - 06 March 2017

Closing Date - 24 March 2017

Machine Used - Facscanto II

Trial Comments

This programme was issued to 327 participants.

Sample Comments

The sample was manufactured by UK NEQAS using stabilised CD34+ samples and stabilised leucodepleted blood

Absolute Values Results and Performance

Please note: Performance monitoring for this programme is on absolute values only. Percentage results are shown for information purposes only.

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
CD34 Absolute Values	57.00	60.17	5.23

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD34 Absolute Values	-0.61	Satisfactory	12	0	0

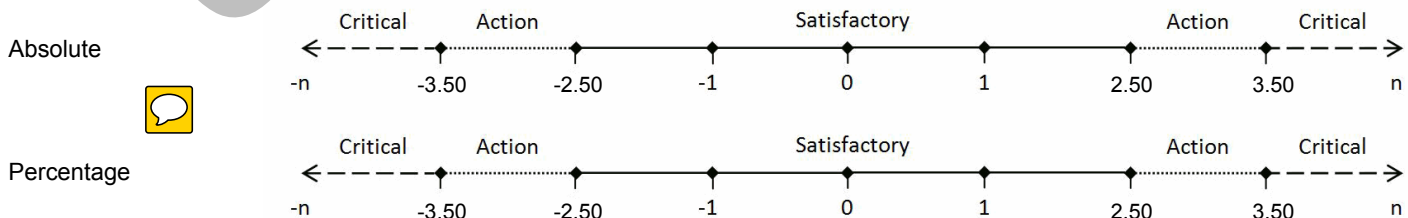
Percentage Values Results and Performance

Cell Population	Your Results %	Robust Mean %	Robust SD %
CD34 Percentage Values	0.70	0.81	0.06

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD34 Percentage Values	-1.83	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.

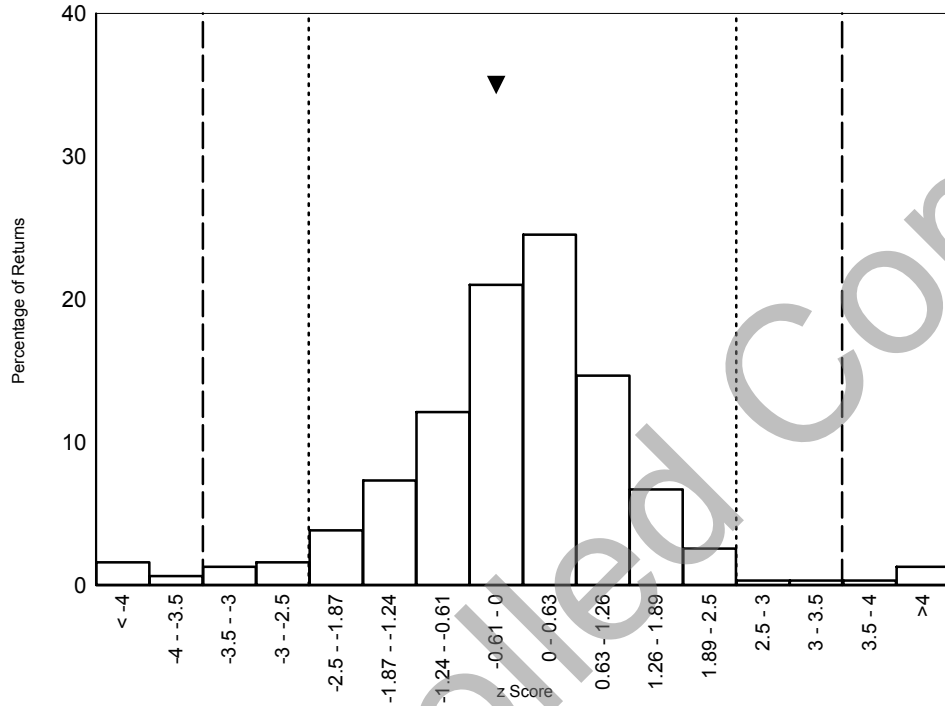


CD34 Stem Cell Programme

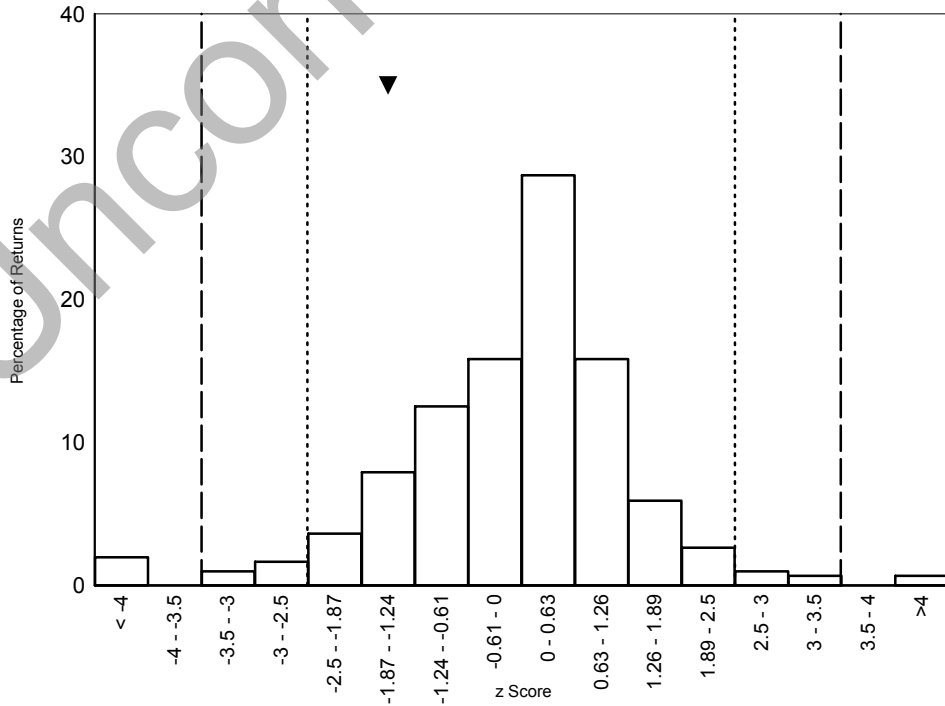
Sample - 234

Histograms of Participant z Scores

Absolute Values (cells/ μ L)
Please note ▼ denotes your result



Percentage Values (%)
Please note ▼ denotes your result





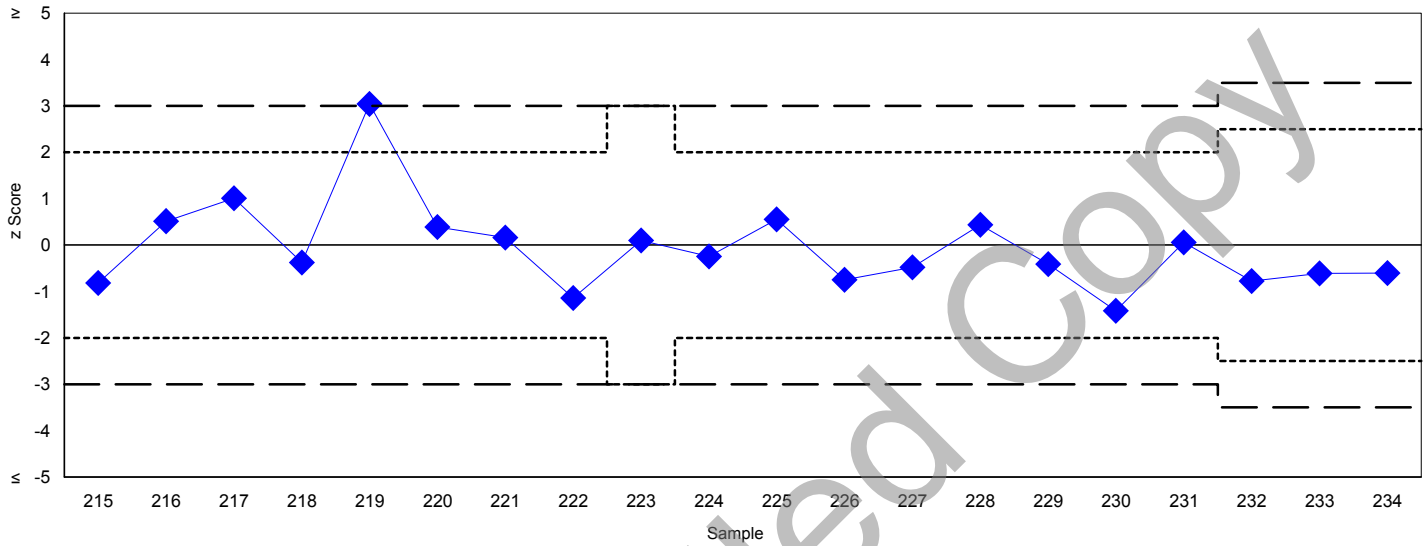
CD34 Stem Cell Programme

Shewhart Control Charts

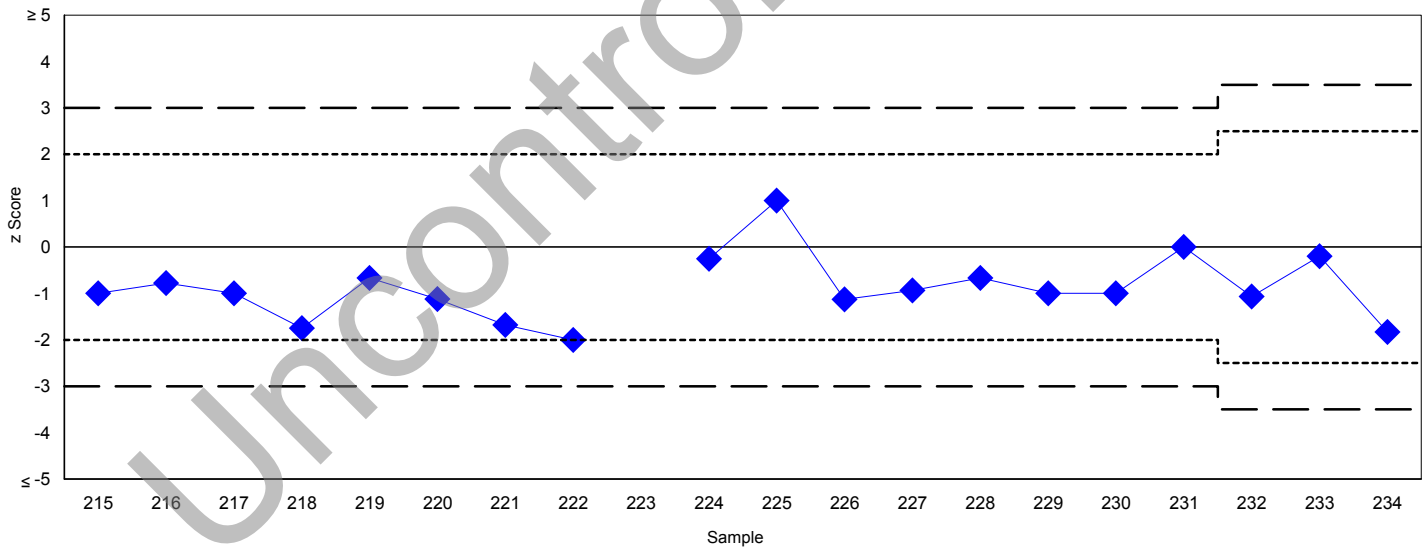


(Please note each data point represents a single sample)

Absolute Values (cells/ μ L)



Percentage Values (%)



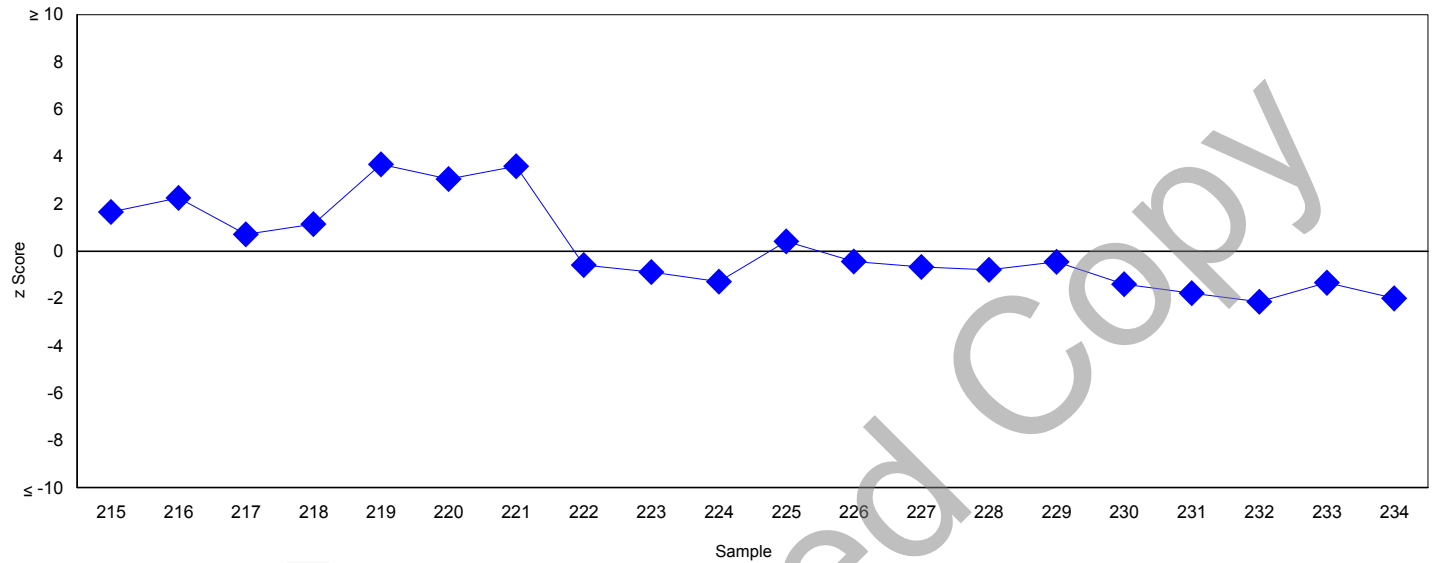
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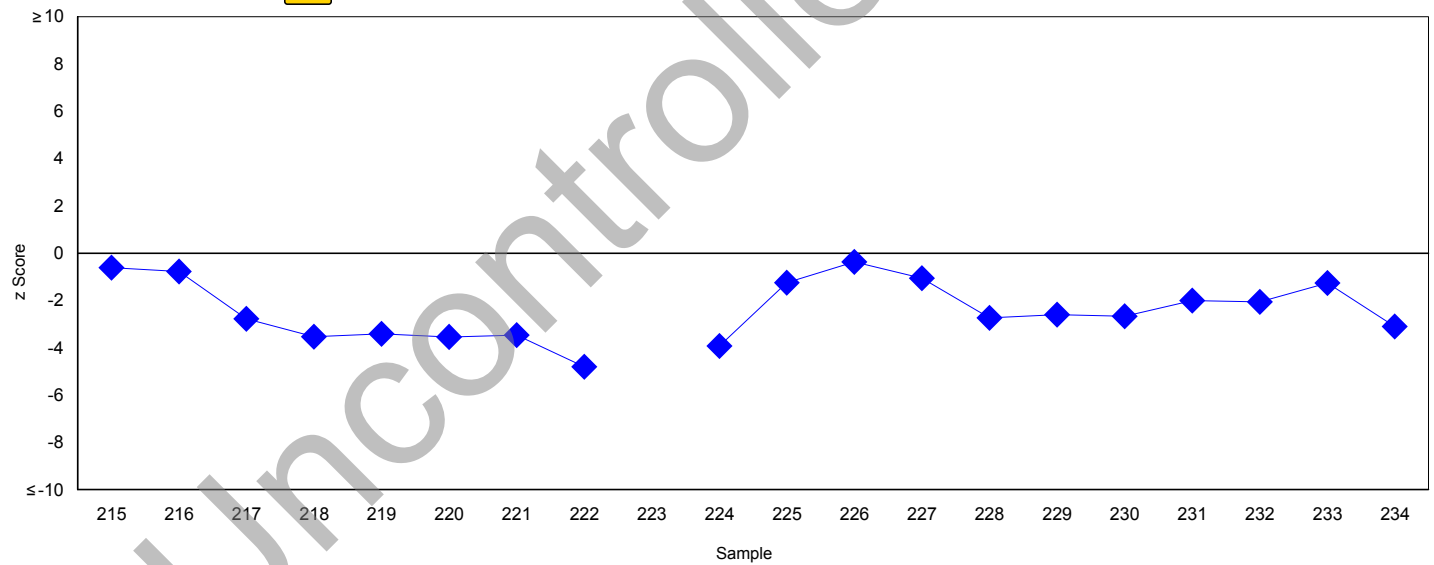
Cusum Control Charts

(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)



Percentage Values (%)



CD34 Stem Cell Programme

 Sample - 234

Platform Specific Statistics 

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	87	59.28	5.67	87	0.80	0.07
HAEMATOLOGY ANALYSER WBC	30	57.21	8.44	30	0.78	0.09
TRUCOUNT	169	60.67	4.89	160	0.82	0.06

Lysing Method Specific Statistics 

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Ammonium Chloride (NH ₄ CL)	137	60.94	4.90	133	0.82	0.06
Facslyse	22	60.29	7.37	20	0.83	0.06
Pharmlyse	61	58.92	6.01	56	0.80	0.07
Stem Kit Lyse	62	58.90	5.10	62	0.80	0.06

Antibody Fluorochrome Specific Statistics 

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
PE	311	59.96	5.58	300	0.81	0.07

Flow Cytometer Specific Statistics 

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Facscalibur	45	58.96	6.30	41	0.79	0.06
Facscanto II	134	60.66	5.08	128	0.83	0.05
FC 500.	54	59.00	5.89	54	0.79	0.07
Navios	50	59.71	5.74	50	0.79	0.08

Gating Strategy Specific Statistics 

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD STEM CELL ENUMERATION KIT	67	61.26	4.29	66	0.83	0.05
ISHAGE	205	59.67	5.83	195	0.80	0.07
STEM KIT	39	58.82	5.82	39	0.80	0.07

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Sample Comments

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Absolute Values Results and Performance

Please note: Performance monitoring for this programme is on absolute values only. Percentage results are shown for information purposes only.

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
CD34 Absolute Values	39.00	37.91	4.59

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD34 Absolute Values	0.24	Satisfactory	12	0	0

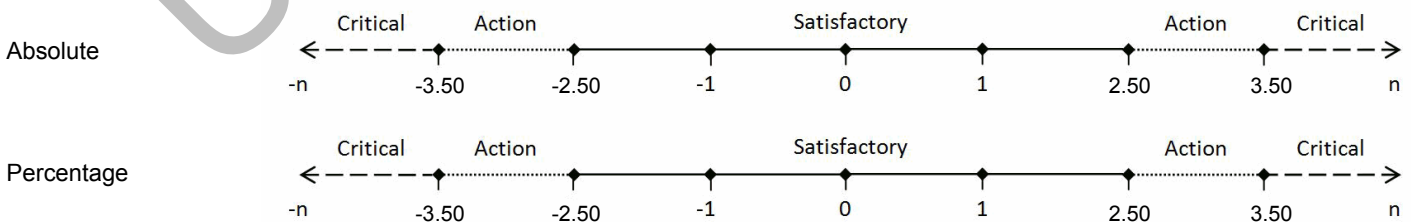
Percentage Values Results and Performance

Cell Population	Your Results %	Robust Mean %	Robust SD %
CD34 Percentage Values	0.20	0.25	0.03

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD34 Percentage Values	-1.67	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.

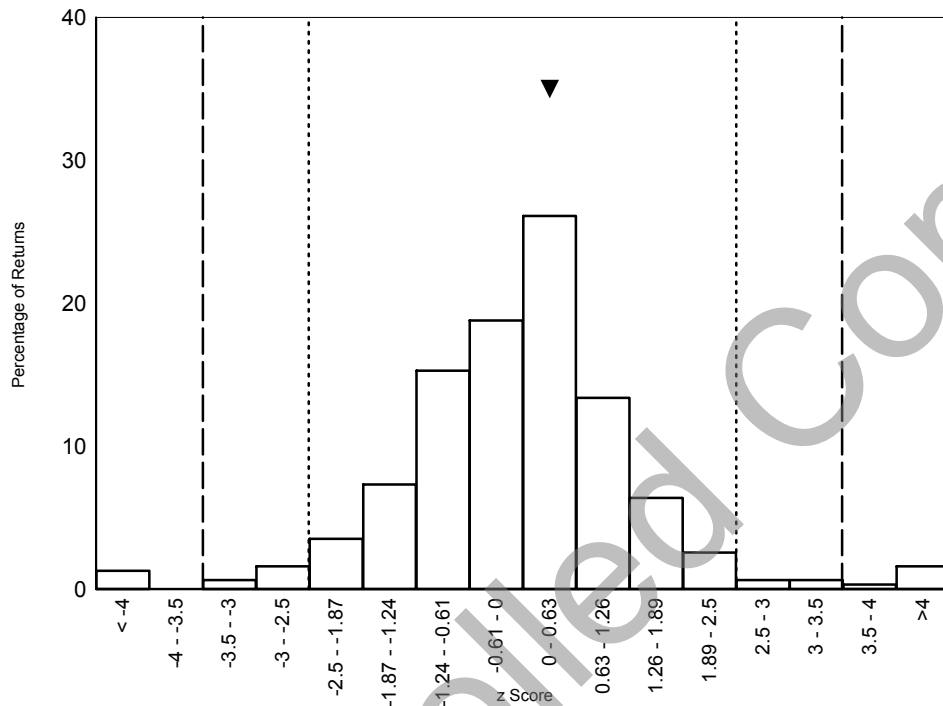


CD34 Stem Cell Programme

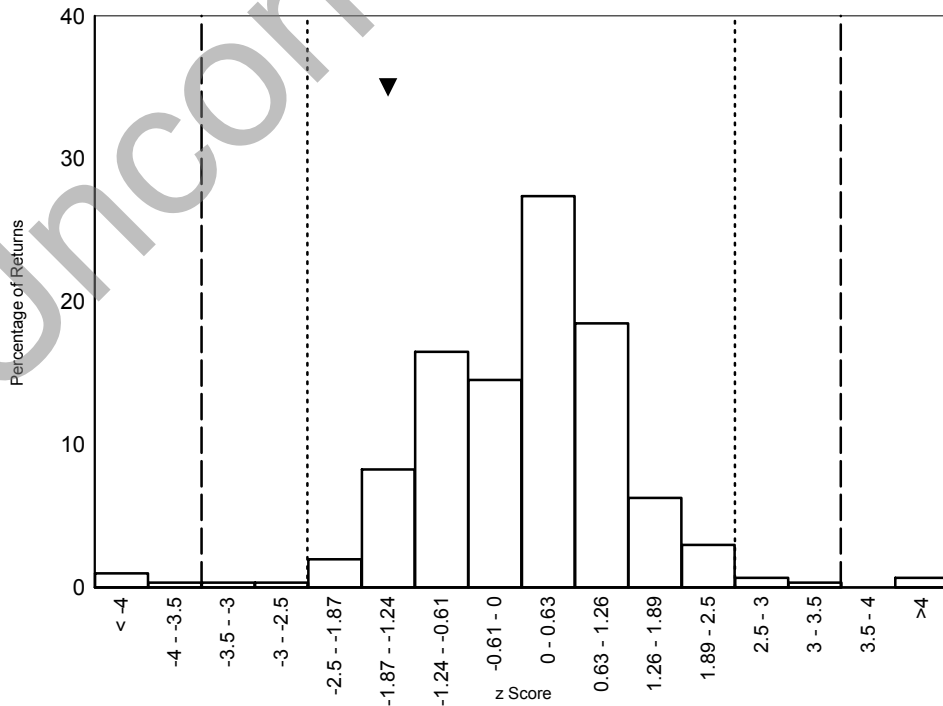
Sample - 235

Histograms of Participant z Scores

Absolute Values (cells/ μ L)
Please note ▼ denotes your result



Percentage Values (%)
Please note ▼ denotes your result



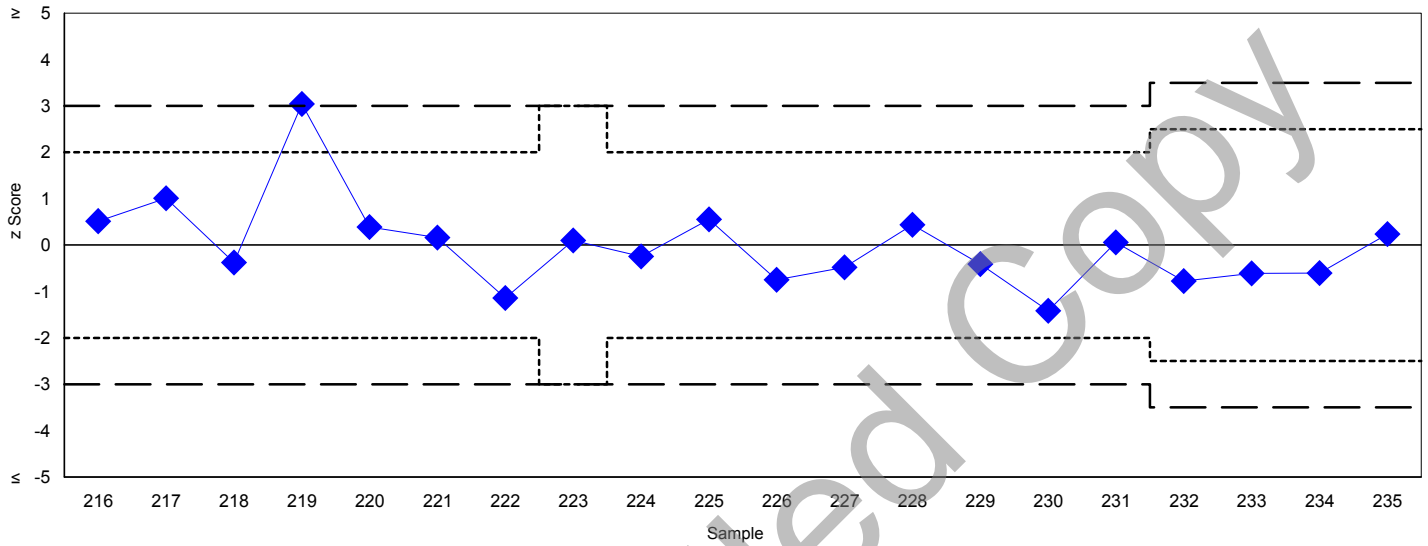
CD34 Stem Cell Programme

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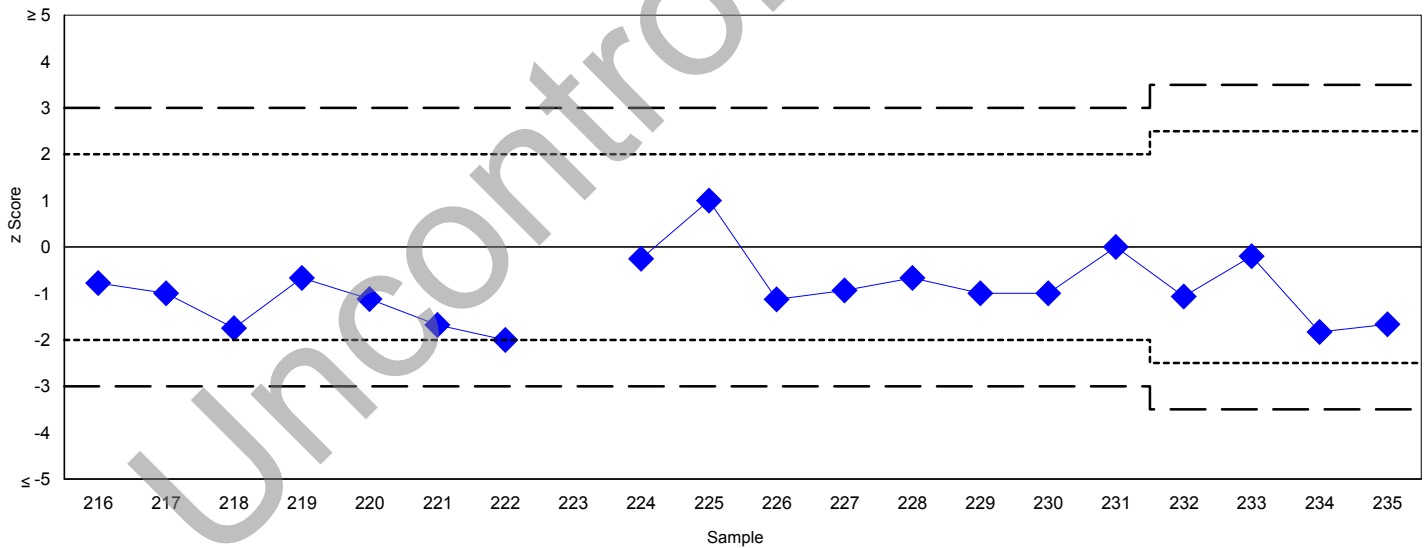
Shewhart Control Charts

(Please note each data point represents a single sample)

Absolute Values (cells/ μ L)



Percentage Values (%)



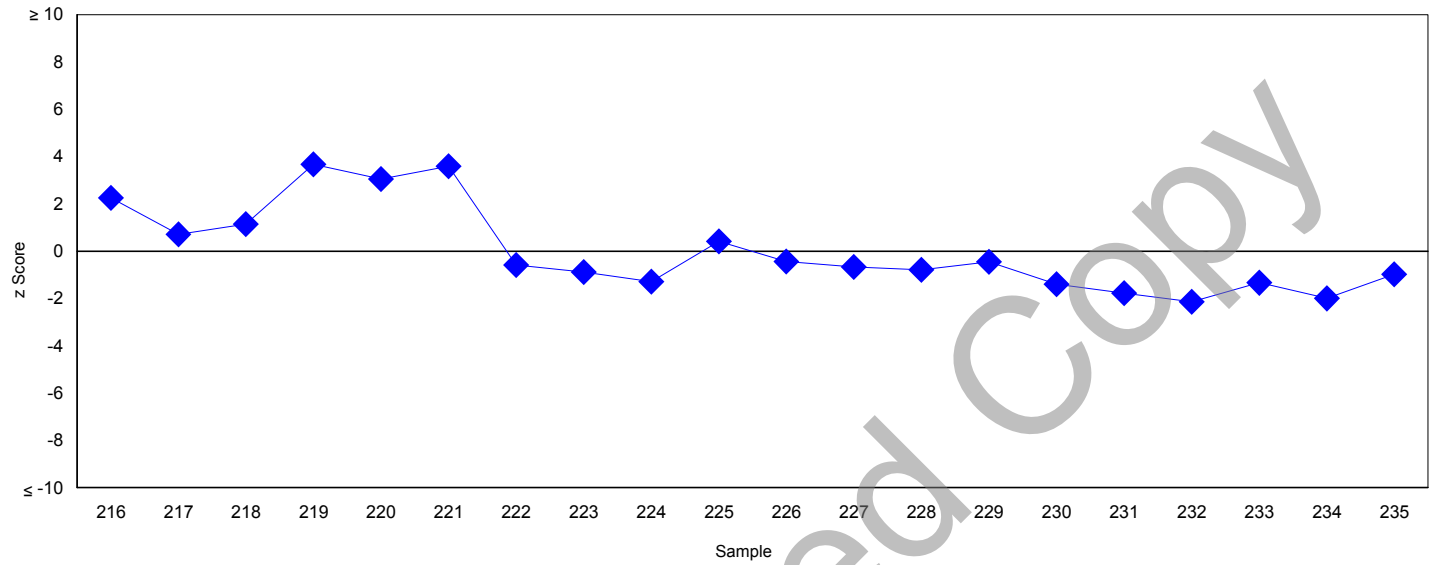
CD34 Stem Cell Programme

Sample - 235

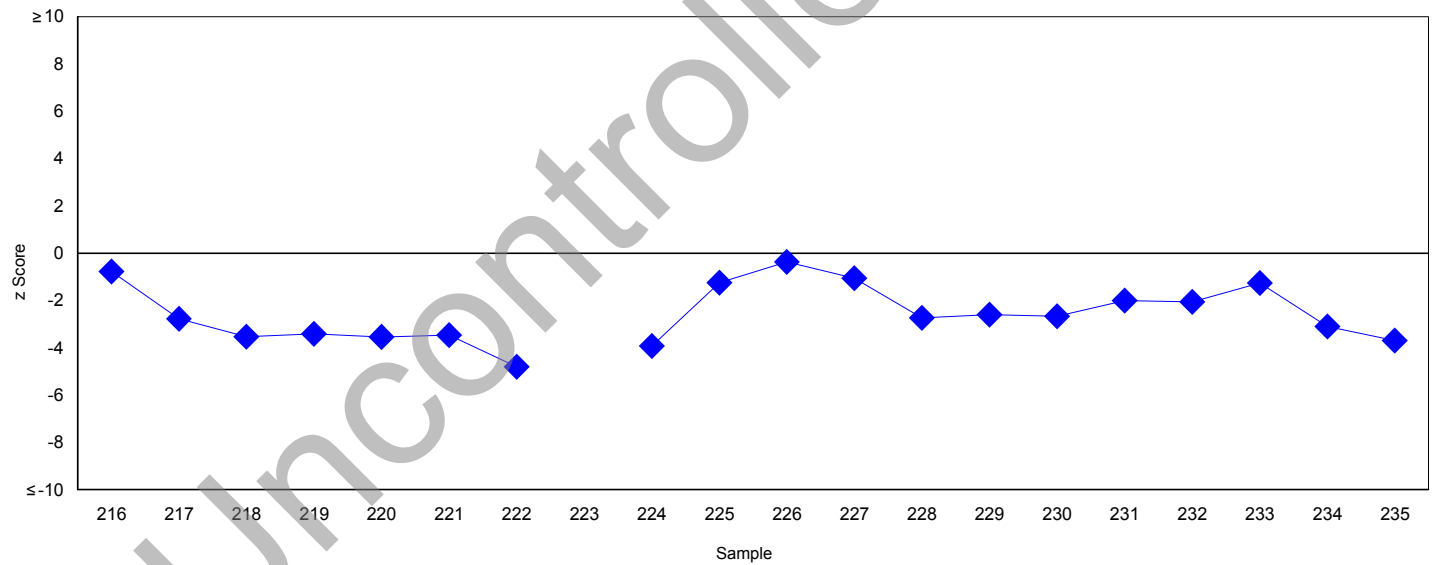
Cusum Control Charts

(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)



Percentage Values (%)



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Sample - 235

Platform Specific Statistics

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Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
FLOW COUNT	87	37.57	4.76	87	0.25	0.03
HAEMATOLOGY ANALYSER WBC	30	36.45	6.18	30	0.25	0.03
TRUCOUNT	169	38.22	4.40	160	0.25	0.03

Lysing Method Specific Statistics

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Ammonium Chloride (NH ₄ CL)	137	38.03	4.91	133	0.25	0.03
Facslyse	22	39.80	5.76	20	0.27	0.02
Pharmlyse	61	37.18	3.49	56	0.25	0.02
Stem Kit Lyse	62	37.35	5.06	62	0.25	0.03

Antibody Fluorochrome Specific Statistics

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
PE	311	37.83	4.79	300	0.25	0.03

Flow Cytometer Specific Statistics

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	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Facscalibur	45	37.03	5.07	41	0.24	0.03
Facscanto II	134	38.47	4.40	128	0.26	0.03
FC 500.	54	37.63	5.65	54	0.25	0.04
Navios	50	36.64	5.08	50	0.24	0.02

Gating Strategy Specific Statistics

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

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
BD STEM CELL ENUMERATION KIT	67	39.54	4.76	66	0.26	0.03
ISHAGE	205	37.46	4.55	195	0.25	0.03
STEM KIT	39	36.58	4.21	39	0.25	0.03

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, Fax: +44 (0) 114 267 3601

e-mail: nicola.rose@ukneqasli.co.uk

4.8.2 b) The coordinators of UK NEQAS LI programmes are Prof David Barnett and Mr Liam Whitby.

4.8.2 c) Person(s) authorizing this report:

Prof David Barnett, Director or Mr Liam Whitby, Operations 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/