

Immune Monitoring (Alternative Technologies) Programme

All Participant Report

Sample - 033

Distribution - 161705

Participant ID - 4XXXX

Date Issued - 24 January 2017

Closing Date - 13 February 2017

Machine Used - Aquios

Trial Comments

This trial was issued to 28 participants.

Sample Comments

The sample was manufactured by UKNEQAS LI using stabilised blood

Absolute Values Results and Performance

Cell Population	Your Results (cells/ μ L)	Robust Mean (cells/ μ L)	Robust SD (cells/ μ L)
CD3+ Lymphocytes	457.00	455.08	21.41
CD3+/CD4+ Lymphocytes	118.00	128.69	8.87
CD3+/CD8+ Lymphocytes	310.00	302.38	14.93
CD19+ Lymphocytes	132.00	136.17	4.92
CD16+/CD56+ Lymphocytes	156.00	153.55	8.64

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD3+ Lymphocytes	0.09	Satisfactory	7	0	0
CD3+/CD4+ Lymphocytes	-1.21	Satisfactory	7	0	0
CD3+/CD8+ Lymphocytes	0.51	Satisfactory	7	0	0
CD19+ Lymphocytes	-0.85	Satisfactory	7	0	0
CD16+/CD56+ Lymphocytes	0.28	Satisfactory	7	0	0

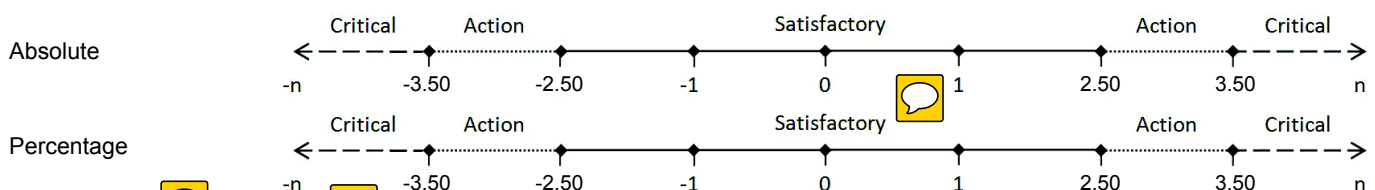
Percentage Values Results and Performance

Cell Population	Your Results %	Robust Mean %	Robust SD %
CD3+ Lymphocytes	60.09	60.44	1.38
CD3+/CD4+ Lymphocytes	15.55	17.28	0.62
CD3+/CD8+ Lymphocytes	40.64	40.39	1.01
CD19+ Lymphocytes	17.32	17.96	0.82
CD16+/CD56+ Lymphocytes	20.58	20.21	0.42

Cell Population	z Score*	Performance Status for this Sample	Performance Status Classification Over 12 Sample Period		
			Satisfactory	Action	Critical
CD3+ Lymphocytes	-0.25	Satisfactory	7	0	0
CD3+/CD4+ Lymphocytes	-2.79	Action	6	1	0
CD3+/CD8+ Lymphocytes	0.25	Satisfactory	6	1	0
CD19+ Lymphocytes	-0.78	Satisfactory	7	0	0
CD16+/CD56+ Lymphocytes	0.88	Satisfactory	6	1	0

***z Score Limits Definitions**

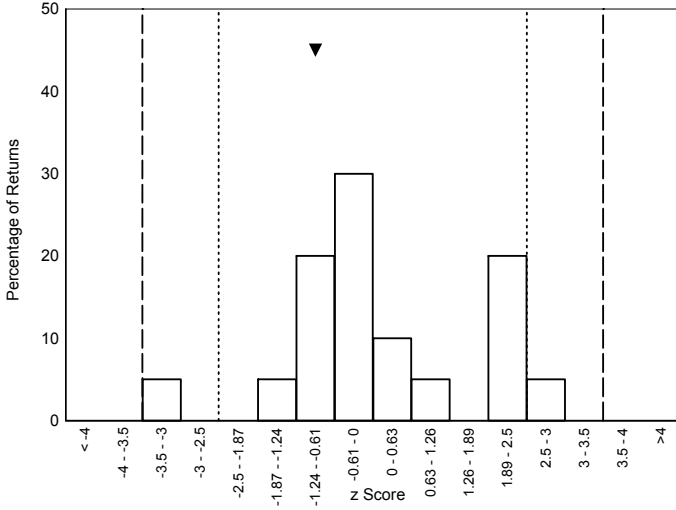
Please note the scale below is applicable to the tables above and to the z score histograms and Shewhart control charts that follow. It is not applicable to the Cusum control charts.



Histograms of Participant z Scores

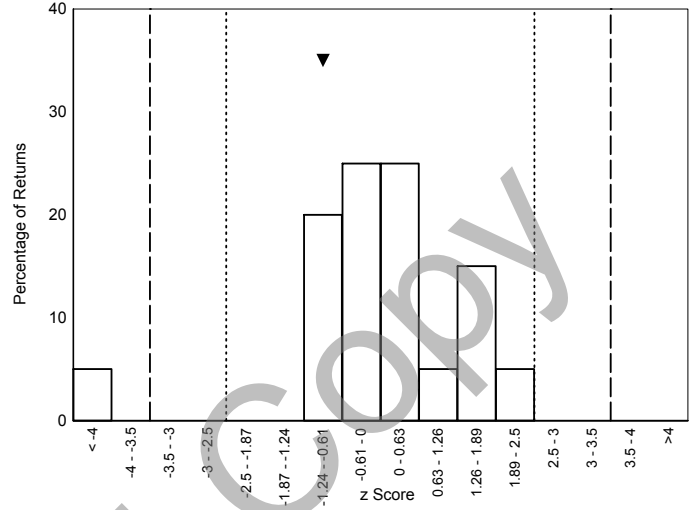
Absolute Values (cells/ μ L) - CD19+ Lymphocytes

Please note ▼ denotes your result



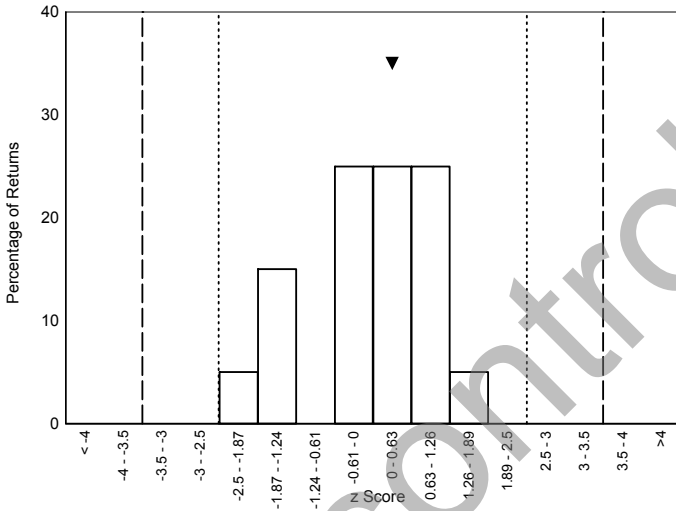
Percentage Values (%) - CD19+ Lymphocytes

Please note ▼ denotes your result



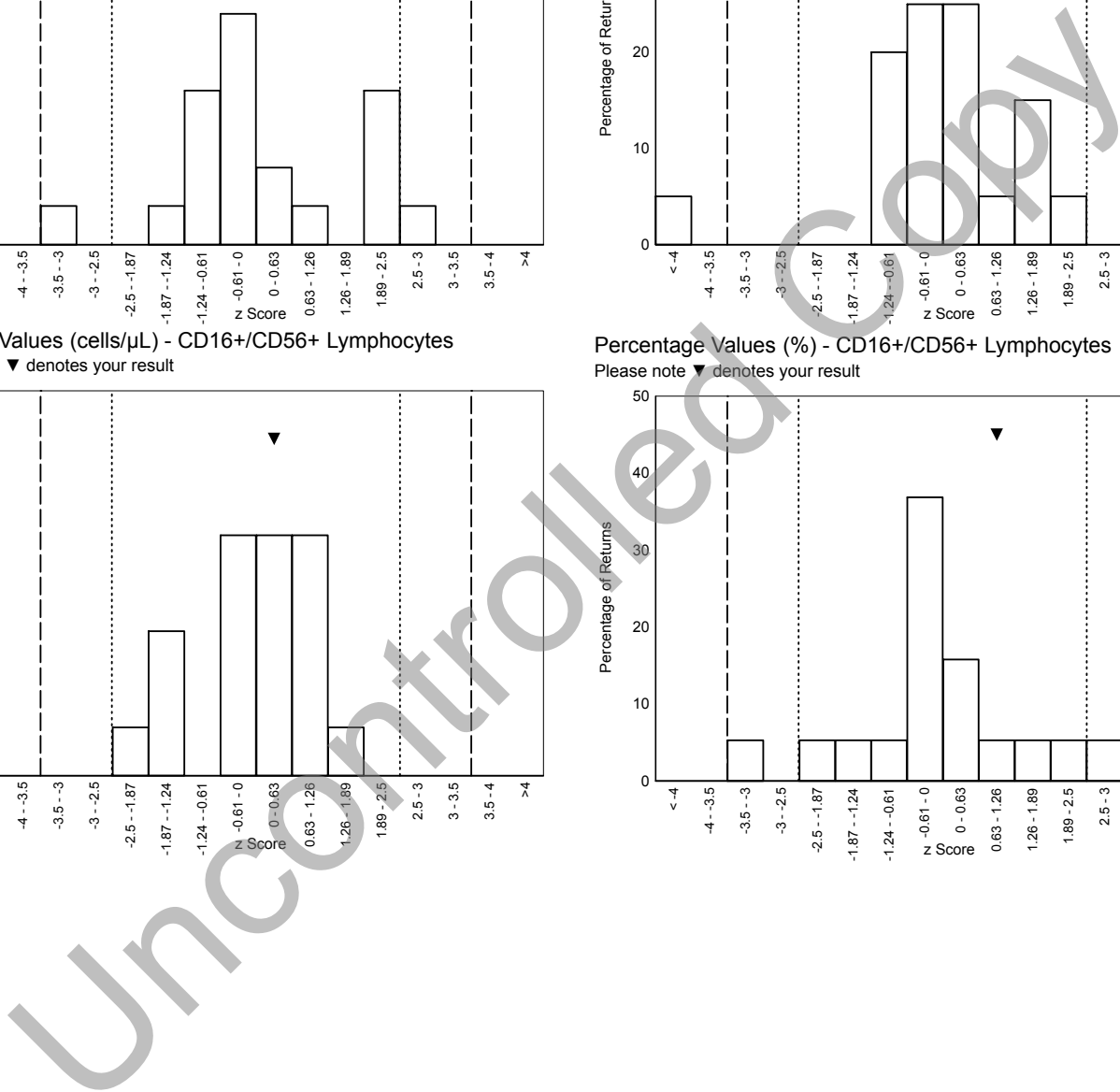
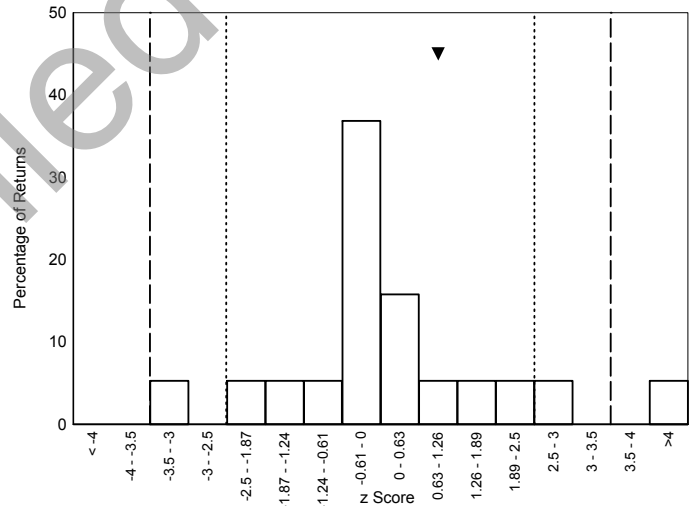
Absolute Values (cells/ μ L) - CD16+/CD56+ Lymphocytes

Please note ▼ denotes your result



Percentage Values (%) - CD16+/CD56+ Lymphocytes

Please note ▼ denotes your result



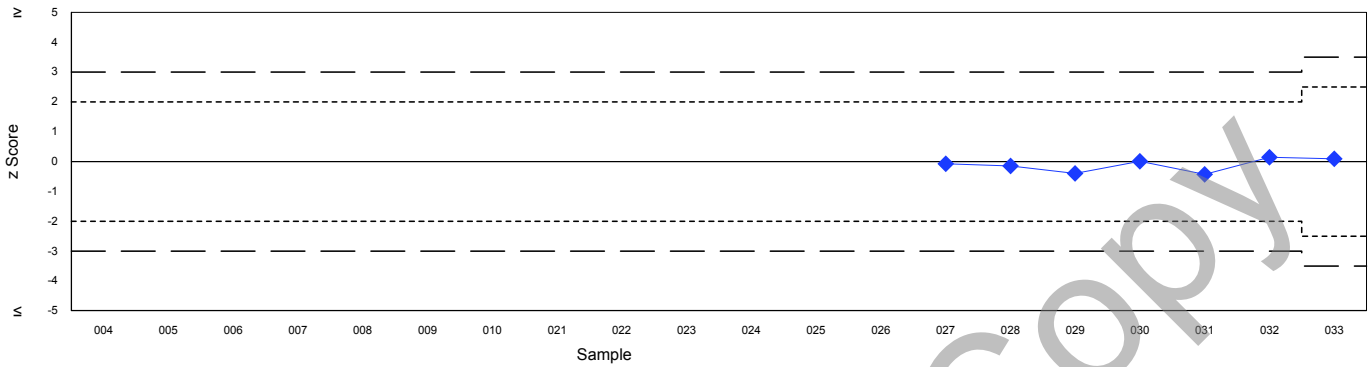
Shewhart Control Charts

(Please note each data point represents a single sample)

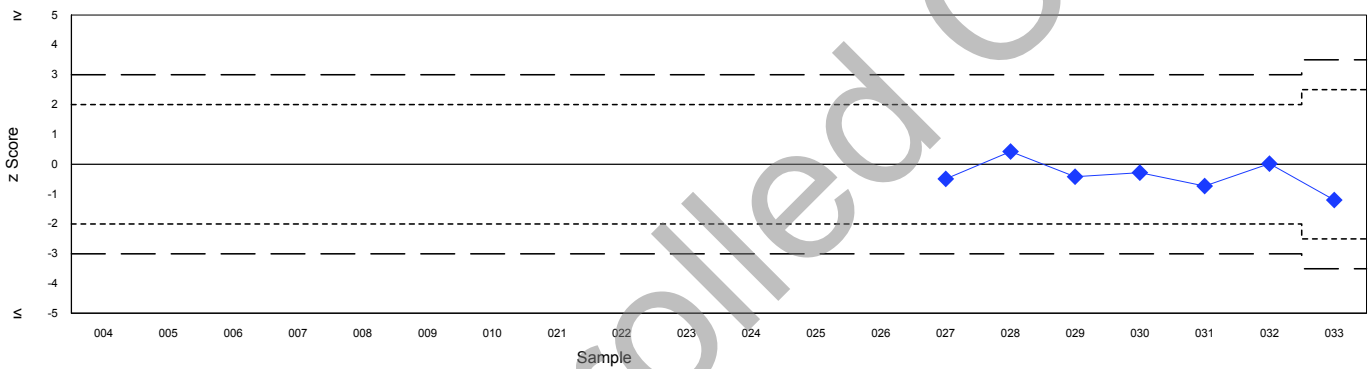
Absolute Values (cells/ μ L)



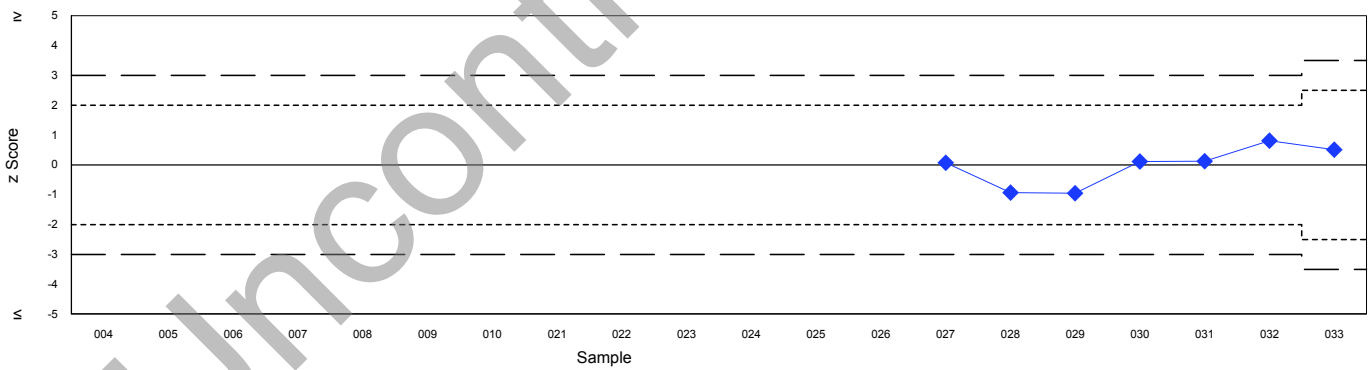
CD3+ Lymphocytes



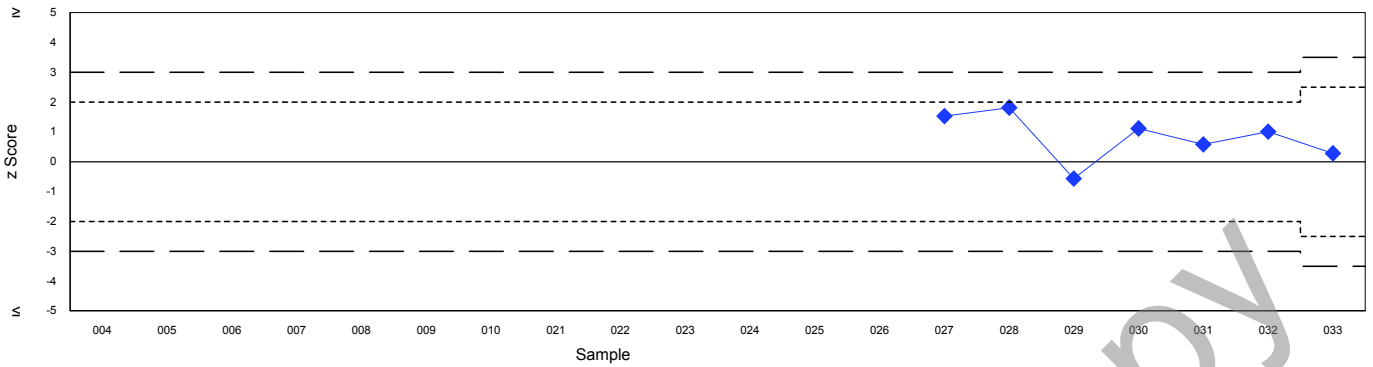
CD3+/CD4+ Lymphocytes



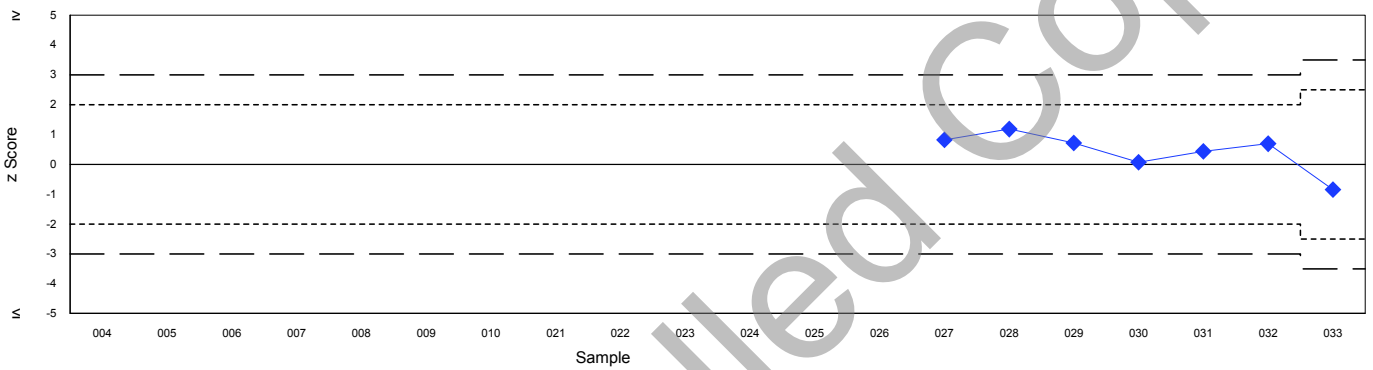
CD3+/CD8+ Lymphocytes



CD16+/CD56+ Lymphocytes



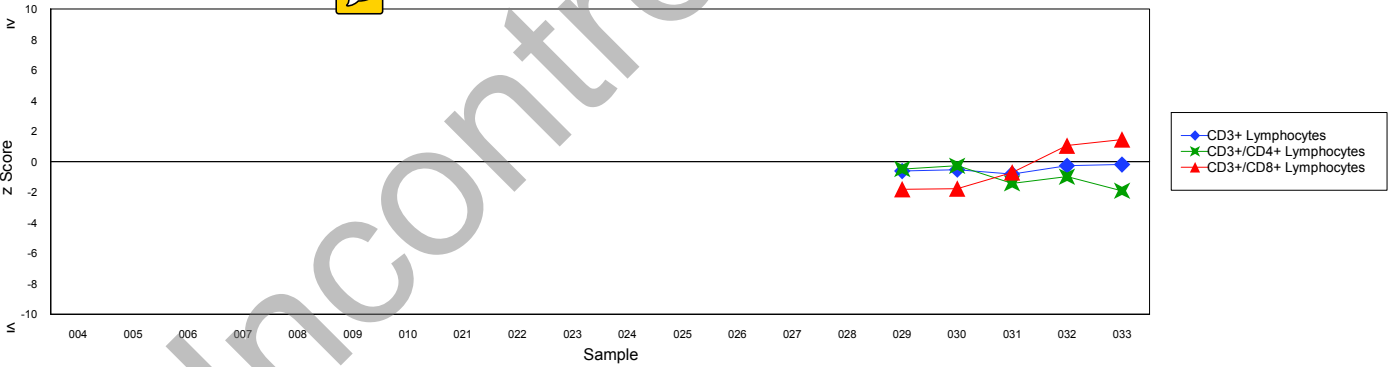
CD19+ Lymphocytes



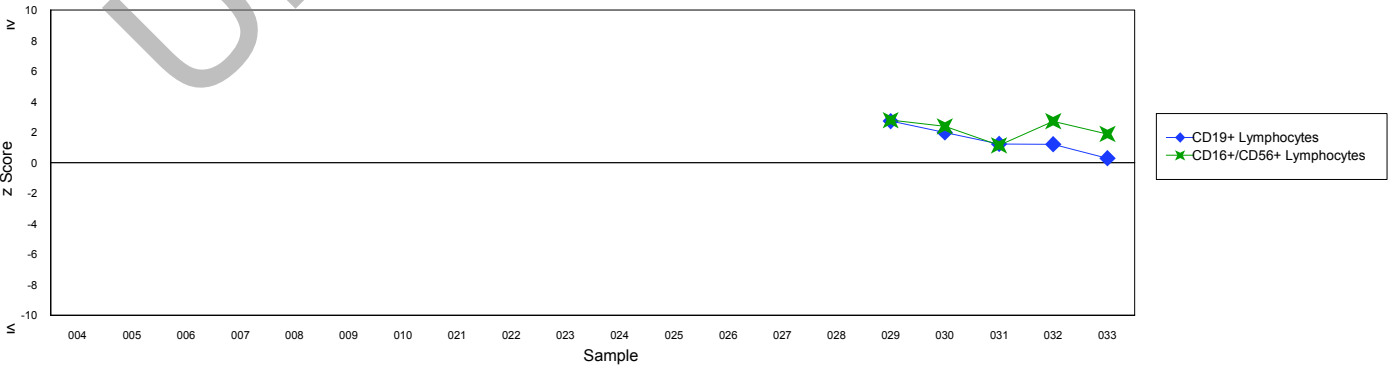
Cusum Control Charts

(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)



Absolute Values (cells/ μ L)



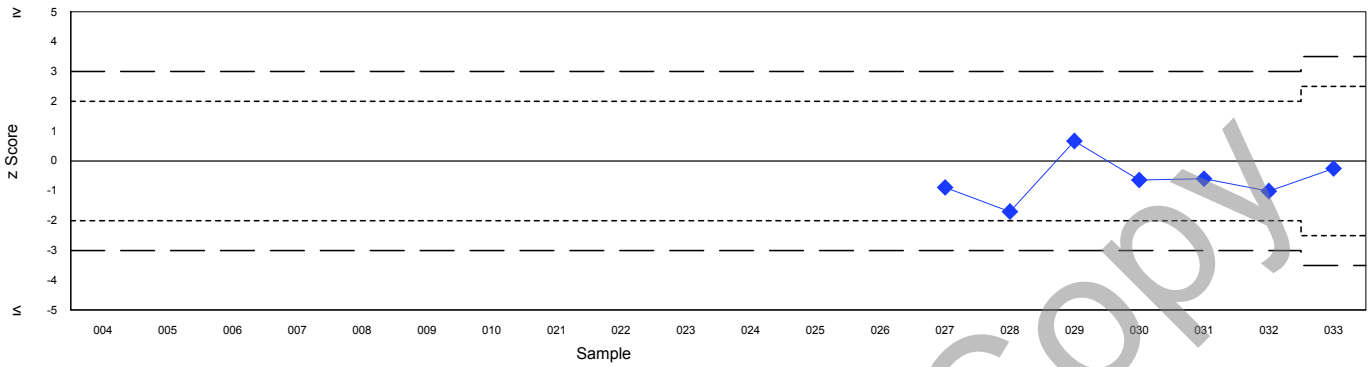
Shewhart Control Charts

(Please note each data point represents a single sample)

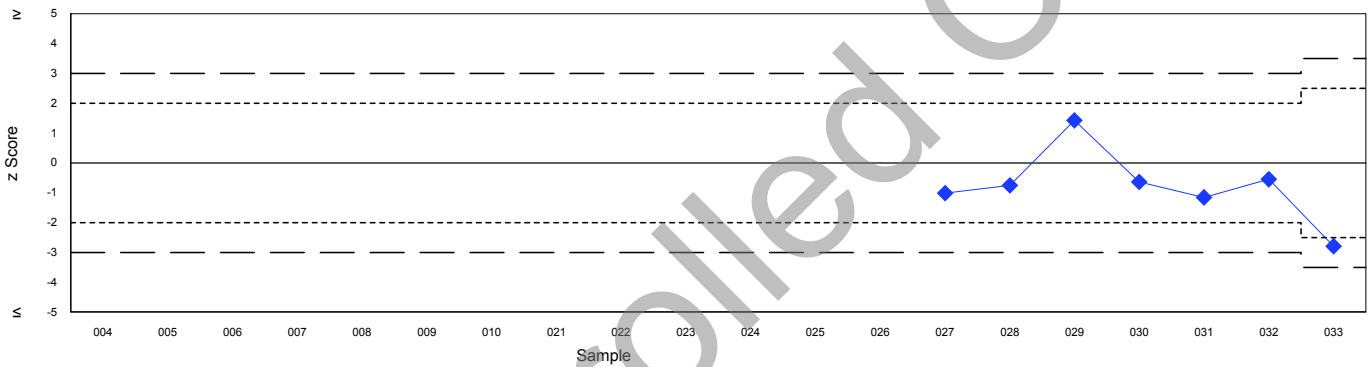
Percentage Values (%)



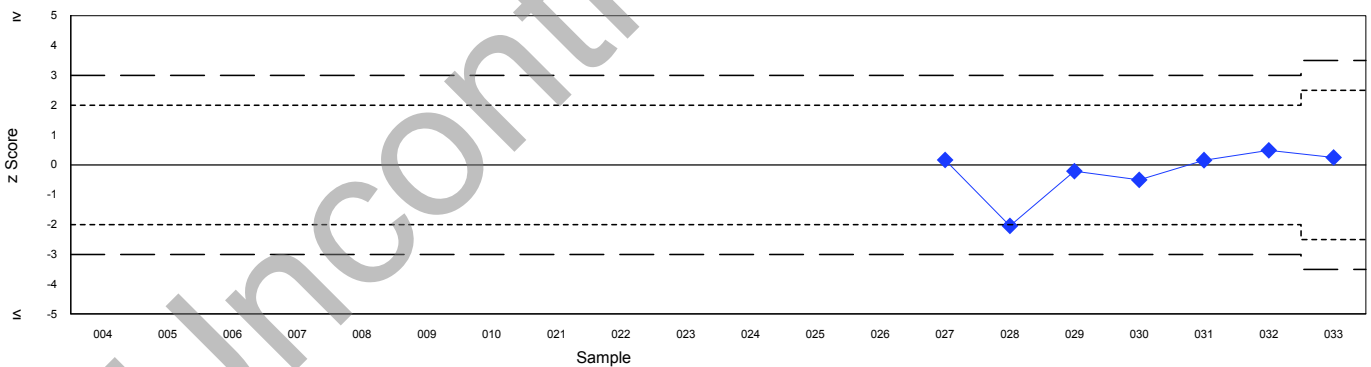
CD3+ Lymphocytes



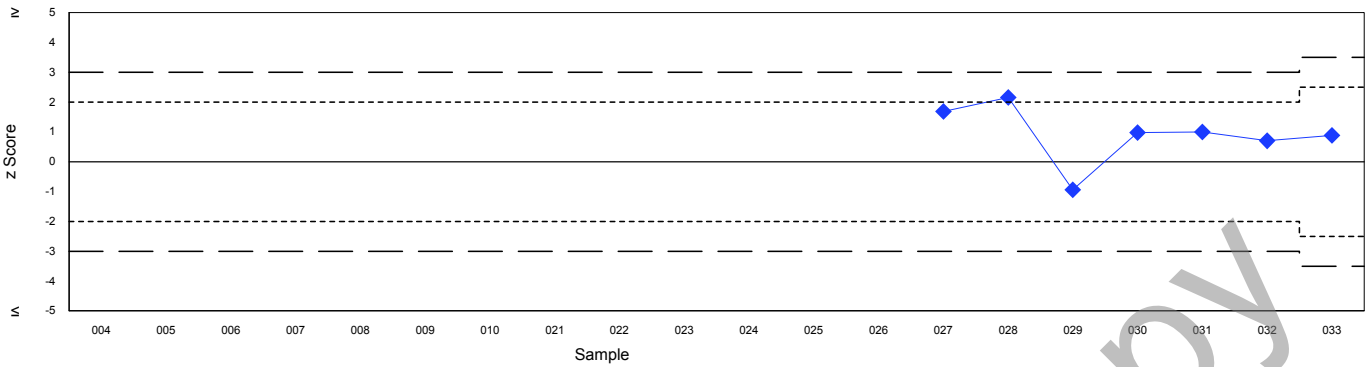
CD3+/CD4+ Lymphocytes



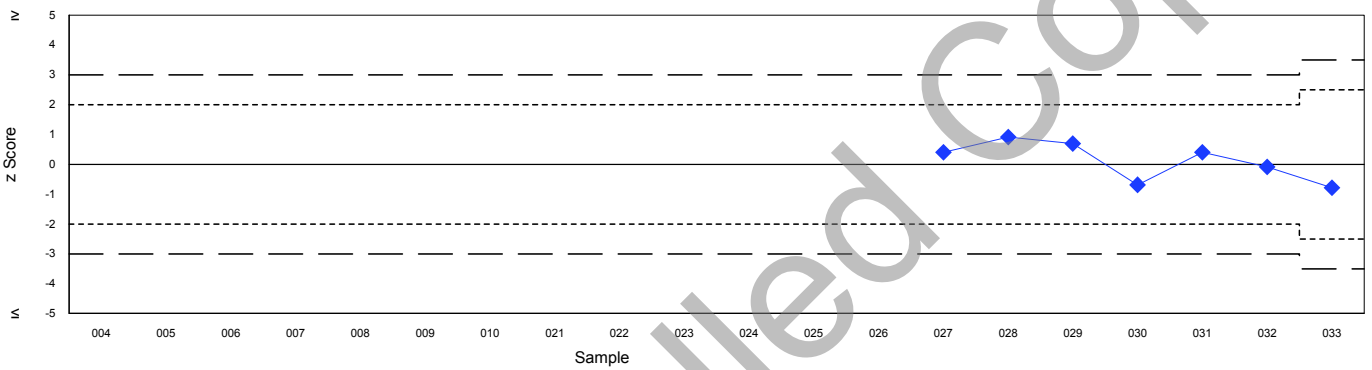
CD3+/CD8+ Lymphocytes



CD16+/CD56+ Lymphocytes



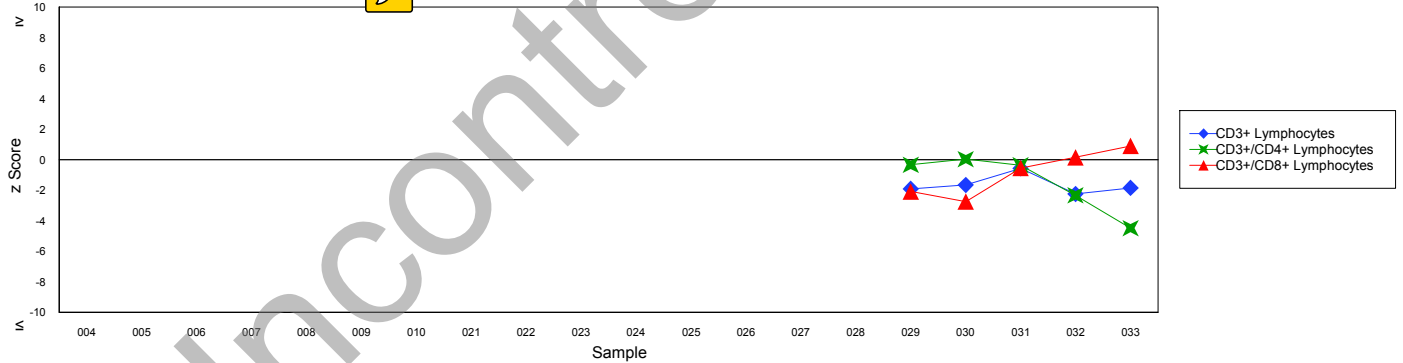
CD19+ Lymphocytes



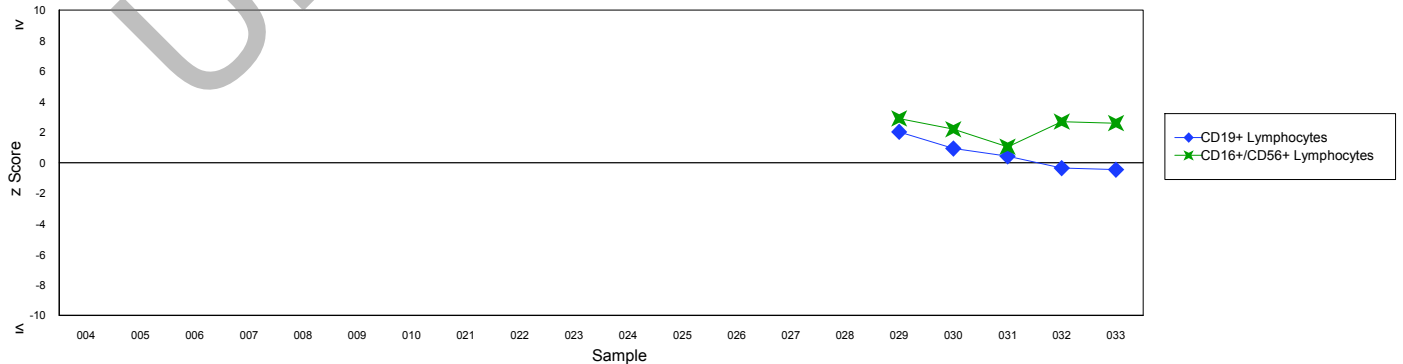
Cusum Control Charts

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

Percentage Values (cells/ μ L)



Percentage Values (cells/ μ L)



Platform Specific Statistics

(Please note only groups of >5 returns are displayed)



Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
	-	-	-	-	-	-

Antibody Manufacturer Specific Statistics

(Please note only groups of >5 returns are displayed)



CD3+ Lymphocytes

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Beckman Coulter	25	455.1	21.4	25	60.4	1.4

CD3+/CD4+ Lymphocytes

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Beckman Coulter	25	128.7	8.9	25	17.3	0.6

CD3+/CD8+ Lymphocytes

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Beckman Coulter	25	302.4	14.9	25	40.4	1.0

CD19+ Lymphocytes

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Beckman Coulter	19	136.2	4.9	19	18.0	0.8

CD16+/CD56+ Lymphocytes

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Beckman Coulter	19	153.6	8.6	18	20.2	0.4

Antibody Fluorochrome Specific Statistics

(Please note only groups of >5 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
	-	-	-	-	-	-

Flow Cytometer Specific Statistics

(Please note only groups of >5 returns are displayed)



Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Aquios	24	454.2	21.6	24	60.4	1.4

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Aquios	24	128.3	8.9	24	17.2	0.7

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Aquios	24	302.5	14.9	24	40.5	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Aquios	18	136.0	5.1	18	18.0	0.9

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
Aquios	18	153.4	8.6	17	20.2	0.5

Gating Strategy Specific Statistics

(Please note only groups of >5 returns are displayed)

Method	Absolute Count Values (cells/ μ L)			Percentage Values		
	Returns	Robust Mean	Robust SD	Returns	Robust Mean	Robust SD
	-	-	-	-	-	-

