

Report for QIS OQI as of 29/06/2022 11:40:11 AM

Report for QIS OQI -

34043 Positive Extraction Controls with low DNA yields

OQI Details

Status	Closed Approved
Subject	A number of positive extraction controls were found to have much lower DNA quantification values than what is typically observed
Source of OQI	Internal Problem
Date Identified	22/03/2013

OQI Creator Contact Details

Creator	Allan MCNEVIN
Organisational Unit/s	Analytical
Service/s	Forensic and Scientific Service
Site Location/s	Coopers Plains

Investigator/Actioner Contact Details

Actioner	Allan MCNEVIN
Organisational Unit/s	Analytical
Service/s	Forensic and Scientific Service
Site Location/s	Coopers Plains

Investigation Details

Investigation Completed	06/05/2013	Root Cause Type	Procedure/Method/Process
Investigation Details	<p>During the processing of quantification batch [REDACTED] it was noted that all samples on the batch contained very low quantification values. Typically reference samples yield high quantification values following extraction. The batch was repeated for quantification and the same results were obtained. In the process it was noted that the positive extraction controls on that batch contained much lower quantification values than what is typically observed.</p> <p>Further investigations showed a number of positive extraction controls had yielded quantification values lower than typically observed. The quantification values observed were in the range of 0.01 - 0.1 ng/uL, whereas typically the positive extraction control yields values in the range of 1 - 3 ng/uL. Further investigation into the reagents used showed that the batches that had positive extraction controls with low quantification values had used a specific in-house lot of Proteinase K (a reagent integral to the extraction process that aids in the destruction of cell membranes and other proteins within the sample), whereas the unaffected batches had used alternative in-house lots of Proteinase K.</p> <p>A test extraction using multiple positive extraction controls was then setup whereby all samples contained the same reagents with the</p>		

exception of Proteinase K (different in-house lots of Proteinase K were used for different positive controls). The results from this testing confirmed that a specific lot of Proteinase K was resulting in greatly reduced DNA yields compared with other lots.

Proteinase K is received by the laboratory as a lyophilized powder. Multiple discrete bottles of the same manufacturer lot number may be received. Specific quantities of nanopure water is added to the powder to form a solution of the desired Proteinase K concentration. As more volume of Proteinase K solution is required for some extraction procedures compared with others, and some extraction procedures require differing concentrations of Proteinase K, various volumes and / or concentrations are aliquot at different times. Each single bottle of Proteinase K is prepared at a specific volume and concentration. Each preparation is designated an internal (in-house) lot number. Therefore, multiple in-house lot numbers or aliquots of Proteinase K may be in use within the laboratory at any given time and more than one in-house lot number may have been produced from the same manufacturer lot number.

When it was identified that a specific in-house lot of Proteinase K was affected, all of the available in-house lot numbers were pH tested using Macherey-Nagel pH strips. The affected Proteinase K was shown to have a pH of 14, compared to other in-house lots with pH in the 7-8 range. For the DNA IQ extraction procedures, 180 uL of 10 mg/mL Proteinase K is added to 6200 uL of TNE buffer. When this mixture was made with the affected Proteinase K, the resulting pH was in the range of pH 11-12. This would then radically affect the ability of any free DNA to bind to the paramagnetic particles in the DNA IQ extraction.

At the same time as the investigation into the affected Proteinase K was being conducted, it was noted that the industrial dishwasher used to clean laboratory glassware was not operating to full specification. A caustic detergent is used in this cleaning process. It is proposed that a measuring cylinder used for the preparation of the affected lot of Proteinase K may have contained residue of the caustic detergent due to the malfunctioning dishwasher, thereby resulting in an in-house lot of Proteinase K with a drastically high pH.

Once it was discovered that a specific in-house lot of Proteinase K had been affected, this lot had been set aside and staff notified that this lot was the cause of the low positive control yields identified. Unfortunately, due to human error, as the investigation was nearing completion, the affected lot was used for some subsequent extraction procedures resulting in additional samples being affected.

Performed By Allan MCNEVIN

Action Details

Action Complete Title	06/05/2013	Action Fix Type Changed Process Corrective Actions
	Action Description	Appropriate AUSLAB audit entries & notes have been made for all affected samples / batches.
		Two letters were sent to the client (QPS) notifying them of all samples that were affected. A copy of each of these letters are retained by the Quality Team within the Intell Letters folder.
		All affected samples, where substrate remained following the initial extraction, were re-extracted. Whilst the initial DNA extraction performed sub-optimally (low DNA yields) any DNA profiles obtained from either the original extraction or the re-extraction (or any pooled samples) are reportable.

A change to some laboratory procedures has been instituted as a result of this OQI. All in-house lots of Proteinase K & DTT will be pH tested and processed through a test extraction prior to release for routine use. This procedure will be placed into the QIS document "19994 Procedure for testing DNA Quantification Standards, DNA Quantification and Amplification kits & Reagents and Quality Control Samples", the title of the document will also be adjusted accordingly. A process of checking quantification values for positive extraction controls at the time of testing has been introduced. Additionally, a change to the process for quarantining kits or reagents under investigation has also been introduced (refer Analytical team minutes dated 15-04-2013).

Repair of the malfunctioning industrial dishwasher is also underway.

Task Details

No Tasks found

Follow-up And Approval

Follow-up Status	Accepted
Follow-up Status Comment	<u>6/05/2013 4:38:25 PM Allan MCNEVIN:</u> OK
Approver	Paula BRISOTTO
Approval/Rejection Date	16/09/2013
Approval/Rejection Comment	<u>16/09/2013 1:43:51 PM Paula BRISOTTO:</u> Approve the investigation performed and the actions taken to resolve the incident, plus the introduction of testing going forward. The industrial dishwasher is still under repair; an acceptable temporary alternative process for washing and rinsing glassware has been implemented until the dishwasher repair is complete.

Associations

No Associations found

Records

No Records found

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Report for QIS OQI as of 29/06/2022 12:11:20 PM

Report for QIS OQI -

34817 Incorrect conditions used for Capillary Electrophoresis

OQI Details

Status	Closed Approved
Subject	It was identified that Genetic Analyzer 3130xl B was set with incorrect run module settings for the capillary electrophoresis of samples amplified using the PowerPlex 21 amplification kit
Source of OQI	Internal Problem
Date Identified	08/07/2013

OQI Creator Contact Details

Creator	Allan MCNEVIN
Organisational Unit/s	Analytical
Service/s	Forensic and Scientific Service
Site Location/s	Coopers Plains

Investigator/Actioner Contact Details

Actioner	Allan MCNEVIN
Organisational Unit/s	Analytical
Service/s	Forensic and Scientific Service
Site Location/s	Coopers Plains

Investigation Details

Investigation Completed	06/08/2013	Root Cause Type	Unintended Human Error
Investigation Details	<p>Information was received from the manufacturer recommending a change to the run modules used for the 3130xl Genetic Analyzer instruments (used for Capillary Electrophoresis - CE). The new run modules contain an additional wash station and other minor changes designed to reduce potential instances of CE carry-over. When installing the updated run modules, it was noted that the run module used on 3130xl B for the analysis of samples amplified with the PowerPlex 21 (P21) amplification kit contained an injection time setting of 3 seconds. The 3130xl A instrument was set to 5 seconds. On consultation with the PP21 user guide, it was observed that 5 seconds is the default setting for 3130xl instruments, however a range of 3 - 22 seconds may be utilised. It is standard practice within the laboratory to use a single consistent injection time setting across both instruments for the same amplification kit.</p> <p>Adjustment of the injection time affects the amount of amplified product that is potentially injected into the capillary at the start of the electrophoresis process. As such, depending on the amount of available product, it would be expected that a longer injection time will result in more product, resulting in more signal. Ultimately this theoretically</p>		

leads to increased peak heights for samples. Concomitantly, it would be expected that the background fluorescence (baseline) would be raised as well.

Once the discrepancy was noted, a test run was conducted. This involved taking a randomly selected batch of casework samples and injecting a single folder (consisting of 14 casework samples, 1 negative extraction control and one allelic ladder) with the previously used run module (3 second injection time), and the new run module provided by the manufacturer (set to 5 second injection time) concurrently. The data was then analysed and the following was found:

- There were no instances observed where the 3 second injection time yielded a higher peak height than the corresponding peak in the 5 second injection time run. Additionally, there were no instances of a peak present in the 3 second injection time run that was not present in the 5 second injection time run. There were however, instances where the 5 second injection time run showed additional peaks that were above the limit of reporting (LOD = 50 RFU) that were not above the LOD in the 3 second injection time run.
- On average, where peaks were observed in both runs, the peak heights in the 5 second injection time run were 1.75 times the height of those observed in the 3 second injection time run (maximum 2.48 times higher, minimum 1.3 times higher)
- The results for each peak from each run were paired and ordered according to the 3 second injection time peak height and graphed. A linear trend line showed an R-squared value of 0.968 and equation $y = 1.65x + 22.63$ (peak height range was 40 RFU to 2354 RFU for the 3 second results). This indicates a strongly linear relationship between the injection time and the peak height for the experiment conducted.

Additionally, it was found that these injection time settings (3130xl B - 3 seconds; 3130xl A - 5 seconds) had been applied since the start of investigations into the PP21 amplification kit, including kit validation. A review of all validation data showed that the majority of validation testing had been performed on 3130xl A, however there were some experiments that had been run on both instruments and both data was utilised. Refer to actions regarding the outcomes associated with this.

Performed By Allan MCNEVIN

Action Details

Action Complete	30/08/2013	Action Fix Type	Expenditure of Resources
Title	Corrective Actions		
	Action Description Once the problem noted in this OQI was noted, a number of corrective actions were instituted.		
	All affected samples and batches were identified, and appropriate AUSLAB batch audit entries and specimen notes were made.		
	After analysis of the validation data, the DNA Analysis management team held a meeting and the following outcomes were decided on:		
	<ul style="list-style-type: none"> - where concordance or population data was run using a 3 second injection time, this data would not be repeated at 5 seconds, as increasing the injection time does not change the designation of any alleles called when run using a 3 second injection time. - baseline & variance data for 3130xl B was re-checked using the original validation samples after re-running using a 5-second injection time. Data obtained did not differ from the values obtained from the validation using 3130xl A. 		

- stutter data was obtained from data obtained from both 3 and 5 second injection times. As the proportion of peak heights does not change with increased injection time, it was agreed that the stutter data was not significantly affected. Additionally, as the stutter files for STRmix software are based on national data, there is no effective change.

- drop-out rates were calculated using both injection times. This data was split and will be included as separate data in an undated PP21 validation report.

- as some additional data was obtained (but not utilised for the validation report), the PP21 validation report will be re-issued with some data split into 3 second and 5 second injection time data, and some additional data obtained from 3 second injection times included. This will also include data to show that half-volume reactions run using a 3 second injection time are reportable, however this method is not recommended due to the potential loss of information when peak heights are low.

For all samples that were amplified with a full-volume (25uL) PCR reaction with the PP21 amplification kit, all samples were sent for repeat CE. The results obtained from 3 second injection time were then compared with the result obtained from repeat CE with 5 second injection time. Results were updated and reported where a change to the reported result was found.

For all samples that were amplified with a half-volume (12.5uL) PCR reaction with the PP21 amplification kit, all samples were assessed. Where it was considered that repeat CE with a longer injection time may provide additional information (e.g the presence of possible peaks below reporting threshold), these samples were re-amplified with a full -volume amplification. Where it was considered that repeat CE would not change the result, the result was reported as obtained.

Task Details

No Tasks found

Follow-up And Approval

Follow-up Status	Accepted
Follow-up Status Comment	<u>26/09/2013 3:47:12 PM Allan MCNEVIN:</u>
Approver	OK
Approval/Rejection Date	Paula BRISOTTO 01/11/2013
Approval/Rejection Comment	<u>1/11/2013 3:04:57 PM Paula BRISOTTO:</u> Appropriate investigation/actions taken. To clarify the action with respect to casework samples (full volume), all 3 sec results were rejected as 'do not use' due to the incorrect injection time parameter applied (these results were considered non-reportable due to a 'quality failure' in that an incorrect analysis parameter was applied). Given the large number of samples/results involved a decision was taken by the Reporting Team to not include the non-reportable or 'do not use' electropherograms in casefiles - only reportable/acceptable electropherograms will be included. Any affected samples will be able to be identified via specimen notes, and affected casefiles will be

identifiable via the inclusion of this OQI.

OQI approved by Amanda Reeves Acting Team Leader on behalf of Paula Brisotto.

Associations

No Associations found

Records

No Records found

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Lab No	Spec	FBQUAN
	BLOOD	1.9
	BLOOD	2.56
	DNA	0.246
	BLOOD	1.99
	QABR	2.2
	BLOOD	2.1
	BLOOD	2.21
	BLOOD	2.16
	DNA	0.406
	BLOOD	1.9
	DNA	0.616
	QABR	1.81
	BLOOD	1.73
	BLOOD	1.79
	DNA	0.301
	BLOOD	2.11
	BLOOD	1.86
	CSUP	1.47
	DNA	0.34
	BLOOD	2.02
	BLOOD	2.17
	DNA	0.465
	BLOOD	2.47
	BLOOD	2.36
	BLOOD	2.44
	BLOOD	2.11
	BLOOD	2.04
	DNA	0.28
	BLOOD	2.85
	BLOOD	2.59
	QABR	2.48
	DNA	0.265
	BLOOD	2.11
	DNA	0.384
	BLOOD	2.15
	DNA	0.452
	BLOOD	2.84
	DNA	0.49
	DNA	0.339
	BLOOD	2.03
	BLOOD	1.89
	BRE	2.01
	BRE	Not used
	BRE	2.16
	DNA	0.541
	BLOOD	2.55
	BLOOD	2.07
	BLOOD	1.97
	BLOOD	2.36

CSUP	1.47
DNA	0.278
DNA	0.561
DNA	0.257
BLOOD	2.32
BLOOD	2.87
BLOOD	0.603
BLOOD	2.39
QABR	2.69
BLOOD	2.34
QABR	2.69
QABR	2.55
DNA	0.256
BRE	3.02
DNA	0.523
BLOOD	2.09
BLOOD	2.34
BLOOD	2.67
BLOOD	2.75
BLOOD	2.77
BLOOD	2.87
BLOOD	2.4
BLOOD	2.7
BLOOD	3.02
DNA	0.497
DNA	0.465
DNA	0.696
DNA	0.273
BLOOD	2.87
DNA	0.624
BLOOD	2.99
BLOOD	2.86
DNA	0.552
BLOOD	2.32
DNA	0.449
BLOOD	2.47
QAB	2.61
DNA	0.406
BLOOD	2.01
BLOOD	1.8
BLOOD	2.31
BLOOD	2.37
DNA	0.387
BLOOD	3.2
DNA	0.36
QAB	2.01
DNA	0.487
DNA	0.696
QAB	1.87
BLOOD	1.88

BLOOD	1.83
DNA	Not used
DNA	0.577
BLOOD	1.76
BLOOD	1.85
DNA	0.381
BLOOD	1.68
BLOOD	1.46
BLOOD	2.1
BLOOD	1.56
DNA	0.372
DNA	0.261
DNA	0.392
DNA	0.283
BLOOD	2.01
BLOOD	1.9
QAB	2.01
DNA	0.201
QAB	2.26
BLOOD	2.14
DNA	0.297
DNA	0.233
BLOOD	2.33
DNA	0.183
BLOOD	2.12
DNA	0.506
BLOOD	2.14
BLOOD	2.71
DNA	0.245
QAB	2.12
QAB	2.23
QAB	1.98
QAB	2.04
QAB	2.04
QAB	1.69
QABR	2.04
QAB	1.89
QAB	1.75
DNA	0.204
DNA	0.189
BLOOD	2.58
QAB	1.84
DNA	0.155
QAB	0.306
QAB	2.08
DNA	0.264
CSUP	1.29
DNA	0.234
QAB	1.65
DNA	0.277

DNA	0.233
QAB	1.95
DNA	0.43
BLOOD	1.46
BLOOD	1.83
BLOOD	2.03
DNA	0.365
DNA	0.397
DNA	0.182
QAB	2.07
QAB	1.96
QAB	1.78
QAB	2.23
DNA	0.361
QAB	1.79
DNA	0.36
QAB	1.15
DNA	0.313
BRE	1.94
QAB	2.32
CSUP	1.51
DNA	0.344
QAB	2.12
QAB	2.41
QAB	2.01
QAB	1.3
DNA	0.403
QAB	2.2
QAB	1.98
DNA	0.281
QAB	1.94
DNA	0.173
NUCT	3.1
BONE	5.03
QAB	1.77
DNA	0.252
DNA	0.0897
BLOOD	1.89
BLOOD	1.71
DNA	0.659
DNA	0.519
DNA	0.413
BLOOD	1.93
DNA	0.335
BLOOD	2.02
DNA	0.46
BLOOD	2.02
DNA	0.272
BLOOD	2.19
DNA	0.311

BLOOD	2.07
DNA	0.247
DNA	0.273
DNA	0.374
BLOOD	2.12
BLOOD	2.47
BLOOD	2.79
BLOOD	2.33
BLOOD	1.97
DNA	Not used
BLOOD	Not used
BLOOD	2.14
DNA	0.423
DNA	0.303
BLOOD	1.73
BLOOD	1.82
DNA	0.265
DNA	0.286
CSUP	0.806
BLOOD	1.9
BLOOD	2.84
DNA	0.275
DNA	0.265
QABR	2.43
BLOOD	1.68
BLOOD	1.76
DNA	0.282
BLOOD	1.58
DNA	0.405
BLOOD	1.91
BLOOD	1.71
DNA	0.686
BLOOD	1.22
BLOOD	1.98
DNA	0.32
BLOOD	1.41
BLOOD	2.06
BLOOD	2.24
DNA	0.394
NUCT	0.263
DNA	0.509
DNA	0.339
BLOOD	1.28
BLOOD	1.76
BLOOD	1.84
DNA	0.68
QABR	1.84
BLOOD	1.42
DNA	0.372
BLOOD	1.83

DNA	0.735
BLOOD	2.8
DNA	0.332
BLOOD	1.68
DNA	0.634
BLOOD	2
BLOOD	1.86
DNA	0.37
BLOOD	1.85
BLOOD	1.51
DNA	0.499
DNA	0.276
DNA	0.244
DNA	0.231
DNA	Not used
BLOOD	1.92
BLOOD	1.44
BLOOD	1.77
BRE	1.8
BRE	1.76
DNA	0.216
BLOOD	2.1
CSUP	1.65
BLOOD	2.32
DNA	0.579
BLOOD	1.93
TISSUE	3.12
BONE	6.74
DNA	0.489
BLOOD	1.38
BONE	5.92
BLOOD	2.21
DNA	0.487
DNA	2.05
BLOOD	1.68
DNA	0.757
BRE	2.91
QAB	2.42
DNA	0.457
QAB	2.3
BONE	5.05
BLOOD	2.21
CSUP	1.49
DNA	0.52
QAB	3.19
QAB	1.7
QAB	2.26
DNA	0.472
QAB	3.41
QAB	3.31

QABR	1.84
QABR	2.51
DNA	0.334
DNA	0.248
TISSUE	0.0301
TISSUE	2.03
BONE	7.59
BLOOD	3.37
DNA	0.595
BLOOD	2.31
BLOOD	2.12
BLOOD	2.79
QABR	1.28
DNA	0.437
TISSUE	0.203
QABR	2.26
BLOOD	1.41
BLOOD	1.64
CSUP	1.53
DNA	0.358
BLOOD	1.63
DNA	0.422
BLOOD	2.42
DNA	0.912
DNA	0.289
DNA	0.839
BLOOD	1.17
BLOOD	1.22
DNA	0.525
DNA	0.717
BLOOD	2.88
BLOOD	1.85
DNA	0.69
DNA	0.722
QAB	2.7
DNA	0.548
QAB	1.58
DNA	0.628
QAB	2.54
BLOOD	2
DNA	0.372
DNA	0.235
QAB	2.5
DNA	0.487
QAB	2.74
DNA	0.298
DNA	0.101
DNA	0.271
CSUP	1.68
NUCT	1.95

BONE	10.09
BLOOD	2.52
DNA	0.351
QABR	2.47
BLOOD	2.11
BLOOD	3.4
BLOOD	2.38
DNA	0.335
BLOOD	2.54
DNA	0.535
BLOOD	1.87
DNA	0.567
BLOOD	1.92
DNA	0.662
BLOOD	2.41
DNA	1.36
BLOOD	1.59
BLOOD	1.11
DNA	0.656
BLOOD	3.47
BLOOD	3.99
BLOOD	1.78
QABR	1.41
BLOOD	1.31
BLOOD	1.08
DNA	0.711
BLOOD	1.27
DNA	0.359
BLOOD	1.19
CSUP	1.12
BRE	1.35
BLOOD	1.71
DNA	0.763
BLOOD	2.31
BLOOD	2.4
DNA	0.897
DNA	0.441
BLOOD	1.64
BLOOD	1.45
DNA	0.0327
DNA	0.406
DNA	Not used
DNA	0.399
DNA	0.544
DNA	0.412
DNA	0.43
DNA	0.472
DNA	0.622
DNA	0.818
DNA	0.739

DNA	0.626
BONE	5.67
BLOOD	1.89
DNA	0.333
BLOOD	2.02
BRE	1.38
BLOOD	1.45
BLOOD	2.14
DNA	0.591
DNA	0.458
DNA	0.434
DNA	0.49
DNA	0.378
DNA	0.511
DNA	0.876
DNA	0.625
DNA	0.646
DNA	0.391
BLOOD	1.56
QABR	2.35
CSUP	0.657
BLOOD	1.64
DNA	0.392
DNA	0.403
BLOOD	1.72
QABR	0.73
DNA	0.318
DNA	0.504
BLOOD	0.87
BLOOD	0.933
DNA	0.306
BLOOD	1.27
BLOOD	1.11
BLOOD	2.11
BLOOD	1.44
BLOOD	1.66
NUCT	0.0507
DNA	0.301
DNA	0.373
BLOOD	2.07
BLOOD	Not used
DNA	0.276
BLOOD	0.942
BLOOD	1.02
QABR	2.15
DNA	0.463
DNA	0.609
BLOOD	1.42
BLOOD	1.51
DNA	0.888

BLOOD	1.41
DNA	0.329
BLOOD	0.605
DNA	0.444
BLOOD	0.958
BLOOD	1.29
BLOOD	1.01
BLOOD	0.963
DNA	0.433
DNA	0.432
DNA	0.365
BRE	1.5
BRE	1.04
BRE	1.05
BLOOD	2.18
BLOOD	0.964
BLOOD	1.2
DNA	0.272
BLOOD	1.45
DNA	0.337
DNA	0.728
BLOOD	0.219
DNA	0.422
CSUP	0.959
CSUP	1.43
BLOOD	1.02
DNA	0.251
DNA	0.312
BLOOD	0.857
BLOOD	1.22
BLOOD	0.736
BLOOD	0.884
BLOOD	0.982
DNA	0.577
DNA	0.534
QAB	0.996
BLOOD	1.73
DNA	0.605
QAB	1.13
DNA	0.414
QAB	1.35
QAB	1.42
QAB	0.948
DNA	0.609
QAB	1.01
DNA	0.518
QABR	0.679
QABR	0.776
BLOOD	0.967
DNA	0.795

DNA	0.694
BRE	1.29
BRE	0.679
BLOOD	1.6
DNA	0.328
BLOOD	1.27
QAB	1.73
CSUP	1.1
DNA	0.132
BLOOD	1.96
DNA	0.329
DNA	0.47
BLOOD	2.35
BLOOD	1.43
DNA	0.14
QAB	2.35
BLOOD	1.17
BLOOD	1.49
BLOOD	Not used
DNA	0.536
QAB	1.39
DNA	0.491
QAB	1.78
DNA	0.529
QAB	1.31
QAB	1.16
DNA	0.584
QABR	0.82
DNA	0.757
BLOOD	1.09
BLOOD	1.32
QABR	0.811
QAB	0.762
QAB	0.77
BLOOD	0.652
DNA	1.54
DNA	0.845
BLOOD	0.816
BLOOD	1.33
DNA	0.178
QABR	0.679
DNA	0.437
DNA	0.428
BLOOD	0.637
BLOOD	1.07
DNA	1.15
CSUP	1.13
DNA	0.464
BLOOD	0.89
TISSUE	1.96

DNA	0.183
DNA	0.351
BLOOD	1.08
DNA	0.427
BLOOD	0.579
BLOOD	0.678
DNA	0.582
BLOOD	0.64
DNA	0.492
BRE	0.689
BRE	0.758
DNA	0.468
DNA	0.678
BLOOD	0.561
BLOOD	1.08
BLOOD	0.86
DNA	0.425
BLOOD	1.19
DNA	0.127
QAB	0.898
CSUP	1.01
NUCT	2.05
BONE	6.05
DNA	0.3
DNA	0.596
BLOOD	0.753
BRE	1.56
BLOOD	1.07
BRE	2.01
BLOOD	1.01
DNA	0.328
BRE	2.15
BLOOD	1.38
BLOOD	1.49
BRE	1.93
BRE	1.32
DNA	0.594
BRE	1.32
BRE	1.27
BLOOD	1.16
DNA	0.715
BLOOD	1.87
DNA	1.07
DNA	0.724
BLOOD	1.27
DNA	0.355
BRE	1.21
BLOOD	1.11
BRE	1.28
BLOOD	1.21

DNA	0.522
DNA	0.636
DNA	0.585
BLOOD	1.73
BLOOD	1.22
BLOOD	0.981
BLOOD	0.891
BLOOD	0.799
DNA	0.451
DNA	0.29
BLOOD	1.45
BLOOD	1.39
DNA	0.464
QABR	2.41
BLOOD	1.55
DNA	0.411
BLOOD	1.61
BLOOD	1.85
DNA	0.594
BLOOD	1.48
BLOOD	1.52
BLOOD	1.68
DNA	0.385
DNA	0.504
BLOOD	1.61
CSUP	0.834
BLOOD	1.18
BLOOD	1.32
BLOOD	0.939
DNA	0.285
BLOOD	1.02
DNA	0.324
DNA	0.539
BLOOD	1.11
BLOOD	0.953
BLOOD	0.735
BLOOD	0.709
BLOOD	1.19
QABR	0.891
QABR	1.26
QABR	1.68
BLOOD	1.21
DNA	0.357
BLOOD	1.23
BLOOD	1.18
BLOOD	1.42
BLOOD	1.23
BLOOD	1.25
DNA	0.465
DNA	0.473

BLOOD	1.01
BLOOD	1.19
BLOOD	1.62
BLOOD	1.93
BLOOD	1.56
DNA	Not used
DNA	0.724
DNA	0.262
BLOOD	1.83
BLOOD	2.56
BLOOD	1.58
DNA	0.42
DNA	0.465
DNA	0.498
DNA	0.427
BLOOD	1.55
BLOOD	1.98
BLOOD	2.03
BLOOD	2.01
BLOOD	1.31
DNA	0.886
DNA	0.576
DNA	0.329
DNA	0.496
QABR	1.19
BLOOD	1.49
BLOOD	1.47
BLOOD	1.23
BLOOD	1.81
DNA	0.803
QABR	1.35
BLOOD	2.18
BLOOD	1.98
BLOOD	2.08
BLOOD	1.71
BLOOD	1.59
BLOOD	Not used
DNA	0.667
CSUP	1.12
BLOOD	1.78
BLOOD	2.24
DNA	0.828
QAB	2.85
QAB	2.63
BRE	0.551
QAB	2.2
QAB	2.34
DNA	0.832
BLOOD	2.02
DNA	0.366

QAB	2.38
QAB	2
BLOOD	1.07
BRE	0.548
BLOOD	1.95
BLOOD	2.19
BLOOD	1.2
QAB	1.54
QAB	2.04
BLOOD	1.93
QAB	1.96
QAB	2.21
QAB	2.3
QAB	1.85
QAB	2.13
QAB	1.78
QAB	1.26
QAB	2.2
QAB	1.52
QAB	1.63
BLOOD	1.29
BLOOD	1.4
BLOOD	2.03
BLOOD	1.43
QAB	1.48
QAB	1.77
QAB	1.54
QAB	2.19
QAB	1.98
QAB	2.24
BLOOD	2.1
QAB	2.38
QAB	1.46
QAB	1.34
QAB	2.35
QAB	2.53
QAB	1.7
QAB	1.59
QAB	2.05
QABR	1.67
CSUP	1.02
QAB	1.49
QAB	2.04
QAB	2.54
QAB	1.7
QAB	1.29
QAB	1.37
QAB	1.14
QAB	1.2
BLOOD	0.989

BLOOD	1.45
BLOOD	1.49
BLOOD	1.71
BLOOD	1.45
BLOOD	1.71
BLOOD	1.64
BLOOD	1.52
BLOOD	1.76
BRE	1.82
BLOOD	2.32
BLOOD	2.26
BLOOD	1.62
BLOOD	1.59
BLOOD	1.77
BLOOD	1.8
BLOOD	1.94
BLOOD	1.5
BLOOD	0.704
BLOOD	1.79
BLOOD	1.08
BLOOD	1.88
BLOOD	1.8
BLOOD	1.15
BLOOD	1.41
BLOOD	1.99
BLOOD	1.66
BLOOD	1.74
BLOOD	1.43
BLOOD	1.8
BLOOD	1.58
BLOOD	1.45
BLOOD	1.58
BLOOD	1.36
BLOOD	1.09
BLOOD	1.15
BLOOD	2.04
BLOOD	1.21
BLOOD	1.99
BLOOD	1.44
BRE	0.539
BLOOD	1.26
BLOOD	1.15
BLOOD	1.71
BLOOD	1.81
BLOOD	1.19
BLOOD	0.962
BLOOD	1.64
BLOOD	1.68
BLOOD	1.78
BLOOD	1.95

CSUP	1.44
NUCT	5.75
BLOOD	1.82
BLOOD	1.59
BLOOD	1.54
BLOOD	1.61
BLOOD	1.73
BLOOD	1.35
BLOOD	1.16
BLOOD	1.71
BLOOD	1.33
BLOOD	1.88
BLOOD	1.59
BLOOD	1.77
BLOOD	1.83
BLOOD	1.57
BLOOD	1.87
BLOOD	1.75
BLOOD	1.31
BLOOD	1.54
BLOOD	0.81
BLOOD	1.22
BLOOD	0.949
BLOOD	1.23
BLOOD	1.26
BLOOD	1.61
BLOOD	1.74
BLOOD	1.66
VALE	1.91
BLOOD	1.79
BLOOD	1.24
VALE	1.46
BLOOD	1.12
BLOOD	1.45
TRANS	1.45
BLOOD	0.889
BLOOD	1.59
BLOOD	1.45
BLOOD	1.43
BLOOD	2.08
BLOOD	1.73
BLOOD	1.68
BLOOD	1.48
TRANS	1.33
BLOOD	1.59
BLOOD	1.67
BLOOD	1.67
BLOOD	1.25
BLOOD	1.73
BLOOD	1.7

BLOOD	1.54
BLOOD	1.73
BLOOD	2.12
BLOOD	1.95
BLOOD	1.11
QABR	1.92
DNA	0.419
BLOOD	1.93
BLOOD	2.54
DNA	0.921
DNA	0.433
QABR	2.01
QABR	2.31
CSUP	0.733
BLOOD	2.27
BLOOD	2.61
DNA	0.529
DNA	0.491
BLOOD	1.65
BLOOD	2.07
DNA	0.324
BLOOD	2.08
BLOOD	2.78
BLOOD	2.22
BLOOD	2.35
DNA	0.401
BLOOD	2.66
BLOOD	2.89
BLOOD	2.65
DNA	0.555
DNA	0.292
BLOOD	3.25
DNA	0.616
DNA	0.617
BLOOD	2.51
BLOOD	2.66
DNA	0.302
DNA	0.941
QABR	3.57
QABR	3.49
BLOOD	2.23
BLOOD	2.7
BLOOD	2.69
BLOOD	2.36
BLOOD	2.66
BLOOD	2.64
DNA	0.438
DNA	0.704
BLOOD	3.61
BLOOD	3.68

BLOOD	3.5
DNA	0.565
DNA	0.417
BLOOD	2.43
BLOOD	0.604
BLOOD	0.617
DNA	0.341
QABR	0.573
BLOOD	0.656
BLOOD	0.771
BLOOD	0.685
DNA	0.402
BLOOD	0.826
BLOOD	0.575
BLOOD	0.549
BLOOD	1.08
DNA	0.24
BLOOD	0.671
BLOOD	0.649
BLOOD	0.463
BLOOD	0.443
DNA	0.251
DNA	0.257
BLOOD	0.626
DNA	0.227
BLOOD	0.399
CSUP	0.673
BLOOD	0.67
DNA	0.292
BLOOD	0.773
BLOOD	0.847
DNA	0.499
BLOOD	2.56
DNA	0.557
QABR	2.28
QABR	2.3
DNA	0.433
BLOOD	2.51
DNA	0.338
DNA	0.481
BLOOD	1.17
DNA	0.91
DNA	0.574
QABR	0.547
BLOOD	0.65
BLOOD	0.58
DNA	0.399
DNA	0.267
BLOOD	0.709
BLOOD	0.436

CSUP	0.606
DNA	0.45
DNA	0.378
BLOOD	0.649
BLOOD	0.924
BLOOD	0.632
QABR	0.396
BLOOD	0.735
BLOOD	0.553
BLOOD	0.465
DNA	0.341
DNA	0.325
BLOOD	0.518
QABR	0.6
BLOOD	0.419
BLOOD	0.697
DNA	0.718
BLOOD	2.69
BLOOD	2.71
BLOOD	2.74
BLOOD	2.36
BLOOD	3.2
BLOOD	3.76
DNA	0.349
QAB	1.93
CSUP	2.71
QAB	2.59
DNA	0.658
QAB	2.26
QAB	1.09
DNA	0.375
DNA	0.484
DNA	0.292
DNA	0.19
DNA	0.189
BLOOD	2.12
DNA	0.136
DNA	2.19
DNA	0.668
CSUP	0.761
QABR	3.31
DNA	0.641
BLOOD	2.7
BLOOD	2.13
DNA	0.606
DNA	0.508
BLOOD	2.67
BLOOD	2.6
DNA	0.51
DNA	1.04

DNA	0.844
DNA	0.445
DNA	0.579
BLOOD	3.05
BLOOD	Not used
BLOOD	2.36
BLOOD	2.49
BLOOD	2.44
BLOOD	3.88
DNA	0.553
BLOOD	2.97
DNA	0.609
DNA	0.703
BLOOD	2.83
DNA	0.682
BLOOD	2.47
BLOOD	2.77
DNA	0.747
CSUP	1.87
BLOOD	5.06
DNA	1.03
BLOOD	5.88
DNA	0.437
QABR	4.45
BLOOD	3.39
QABR	2.94
DNA	0.596
BLOOD	2.67
BLOOD	3.38
NUCT	9.96
DNAD	0.263
DNAD	0.303
DNAD	0.288
DNAD	0.251
POOLED	2.43
POOLED	1.46
POOLED	1.09
POOLED	1.7
BLOOD	4.48
BLOOD	5.13
DNA	0.413
BLOOD	3.23
DNA	0.495
BLOOD	4.54
DNA	0.364
BRE	5.93
CSUP	2.6
DNA	0.367
QABR	4.66
BLOOD	5.28

BLOOD	4.62
DNA	0.419
BLOOD	2.9
NUCT	8.25
DNA	0.507
DNA	2.6
BLOOD	3.99
DNA	0.958
BLOOD	2.74
DNA	0.953
BLOOD	3.79
BLOOD	4.16
BLOOD	4.04
DNA	0.7
QABR	4.23
DNA	1.65
BLOOD	4.02
DNA	0.842
DNA	1.04
BLOOD	3.88
QABR	4.68
DNA	0.422
DNA	0.92
DNA	1.71
BLOOD	4.59
BLOOD	4.18
DNA	1.63
DNA	1.04
BLOOD	4.9
QABR	4.52
QAB	0.119
QAB	4.37
QAB	3.95
QAB	4.04
DNA	0.7
CSUP	2.46
QAB	5.07
DNA	0.584
DNA	0.385
QAB	3.61
QAB	2.75
DNA	0.409
DNA	0.281
BLOOD	2.54
DNA	0.295
QABR	4.99
QAB	4.15
QAB	3.72
DNA	0.334
DNA	0.227

BLOOD	3.38
QAB	3.45
NUCT	6.53
BLOOD	3.53
BLOOD	3.29
DNA	0.434
DNA	0.39
DNA	0.56
BLOOD	3.27
BLOOD	2.87
BLOOD	2.95
QABR	4.21
DNA	0.987
DNA	0.358
BLOOD	4.04
BLOOD	3.24
CSUP	1.31
BLOOD	3.21
DNA	0.637
BLOOD	Not used
BLOOD	3.04
DNA	0.408
BLOOD	2.73
BLOOD	5.23
BLOOD	3.83
DNA	0.589
DNA	0.456
BLOOD	4.58
BLOOD	5.2
BLOOD	3.38
DNA	0.785
DNA	1.24
DNA	1.78
QABR	4.3
BLOOD	3.64
BLOOD	2.46
CSUP	1.57
QABR	3.18
DNA	0.56
BLOOD	3.19
DNA	0.344
BLOOD	3.3
DNA	0.826
BLOOD	3.33
BLOOD	3.12
QABR	4.5
BLOOD	3.64
BLOOD	4.16
BLOOD	3.14
DNA	0.292

BLOOD	3.31
DNA	0.488
BLOOD	2.76
DNA	0.603
DNA	0.25
DNA	0.658
BLOOD	3.8
VALB	3.12
VALB	4.86
VALB	3.25
BLOOD	2.84
BLOOD	3.51
BLOOD	3.43
DNA	0.512
DNA	0.647
DNA	0.498
BLOOD	3.13
BLOOD	3.3
BLOOD	3.41
DNA	0.436
DNA	0.469
BLOOD	2.46
BLOOD	2.74
DNA	0.982
DNA	0.477
DNA	0.309
BLOOD	3.31
BLOOD	2.31
DNA	0.247
DNA	0.564
DNA	0.365
DNA	0.446
DNA	0.281
DNA	0.36
BLOOD	3.18
BLOOD	2.7
DNA	0.52
QABR	2.86
BLOOD	2.63
BLOOD	1.74
BLOOD	2.4
BLOOD	2.2
BLOOD	3.46
BLOOD	3.43
BLOOD	3.24
DNA	0.496
BLOOD	2.65
DNA	0.558
BLOOD	2.64
CSUP	1.93

QABR	2.74
DNA	0.382
BLOOD	2.71
DNA	0.261
DNA	0.312
DNA	0.422
DNA	0.439
DNA	0.309
DNA	0.323
DNA	0.405
DNA	0.521
DNA	0.378
QABR	2.1
DNA	0.548
DNA	0.435
DNA	0.295
DNA	0.622
DNA	0.94
DNA	1.03
DNA	0.483
DNA	0.987
DNA	0.692
DNA	0.518
BLOOD	2.67
BLOOD	2.32
BLOOD	2.84
DNA	0.196
DNA	0.334
BLOOD	2.54
BLOOD	2.02
QABR	2.19
BLOOD	3.05
CSUP	2.4
BLOOD	0.47
DNA	0.924
DNA	0.453
BLOOD	2.57
DNA	0.711
BLOOD	2.01
DNA	1.11
BLOOD	2.45
DNA	0.582
BLOOD	2.37
BLOOD	1.59
DNA	0.39
QABR	2.1
BLOOD	2.37
DNA	0.458
BLOOD	1.44
QABR	2.03

BLOOD	2.69
DDNA	0.622
DDNA	0.548
DNA	0.298
BLOOD	2.15
DNA	0.39
BLOOD	1.95
DNA	0.326
DNA	0.882
BLOOD	2.15
BLOOD	2.25
PSECT	1.55
RBLOOD	2.35
QAB	2.45
QAB	2.47
DNA	0.569
DNA	0.416
DNA	1.04
BLOOD	2.18
BLOOD	2.31
RBLOOD	1.81
CSUP	1.72
BLOOD	2.01
DNA	0.387
POOLED	1.79
POOLED	2.06
DNA	0.414
BLOOD	1.96
DNA	0.396
NUCT	0.0349
BLOOD	2.11
DNA	0.275
BLOOD	1.38
DNA	0.422
BLOOD	1.94
DNA	0.391
DNA	0.362
DNA	0.394
BLOOD	2.32
BLOOD	2.16
DNA	0.454
BLOOD	2.67
BLOOD	2.67
BLOOD	2.18
DNA	0.327
DNA	0.398
BLOOD	2.13
QABR	2.54
DNA	0.315
DNA	0.525

DNA	0.567
BLOOD	2.45
BLOOD	2.36
DNA	0.422
BLOOD	2.5
BLOOD	2.59
BLOOD	3.16
BLOOD	2.31
DNA	0.618
DNA	0.565
DNA	0.513
BLOOD	2.43
BLOOD	2.28
BLOOD	2.25
DNA	0.557
QAB	1.09
BRE	0.569
BRE	0.776
DNA	0.926
QAB	1.15
QAB	0.761
DNA	0.495
QAB	1.2
DNA	0.541
CSUP	0.576
QAB	0.767
DNA	0.346
DNA	0.428
NUCT	1.35
QABR	2.5
QAB	1
DNAD	0.435
DNAD	0.379
CTRAN	0.464
CTRAN	0.4
CTRAN	0.574
CTRAN	0.497
DNA	0.476
DNA	0.473
QAB	1.54
DNA	0.443
DNA	0.352
DNA	0.329
DNA	0.526
BLOOD	2.58
QAB	0.878
DNA	0.302
BLOOD	2.4
DNA	0.52
QABR	2.57

DNA	0.426
DNA	0.324
QAB	1.26
DNA	0.525
BLOOD	1.23
BLOOD	1.23
DNA	0.685
BLOOD	2.57
BLOOD	1.98
BLOOD	0.906
CSUP	1.85
BLOOD	2.41
BLOOD	2.44
DNA	0.501
DNA	1.1
QABR	2.69
DNA	0.555
DNA	0.432
DNA	0.608
BLOOD	2.16
BLOOD	2.27
BLOOD	2.02
BLOOD	2.52
QABR	2.47
QABR	2.46
VALB	1.89
BLOOD	2.08
BLOOD	2.29
BLOOD	2.13
DNA	0.711
DNA	0.889
DNA	0.324
BLOOD	2.97
BLOOD	2.44
BLOOD	2.8
BLOOD	3.02
BLOOD	2.57
DNA	0.283
BLOOD	2.83
DNA	1.02
QABR	1.89
QABR	1.63
BLOOD	2.57
BLOOD	2.28
DNA	0.99
BLOOD	2.9
DNA	0.35
BLOOD	1.92
BLOOD	2.9
DNA	0.757

BLOOD	2.29
BLOOD	2.34
DNA	0.598
DNA	0.575
BLOOD	2.07
BLOOD	1.9
DNA	0.481
DNA	0.577
BLOOD	2.53
DNA	0.527
DNA	0.437
BLOOD	2.13
QABR	2.76
BLOOD	2.08
BLOOD	2.57
DNA	0.372
QABR	2.66
DNA	0.696
DNA	0.753
BLOOD	2.38
DNA	0.661
BLOOD	1.82
BLOOD	2.64
BLOOD	2.64
BLOOD	3.14
DNA	0.854
BLOOD	2.1
DNA	0.53
DNA	1.54
BLOOD	2.33
DNA	1.24
BLOOD	2.75
DNA	0.905
BLOOD	2.51
BLOOD	2.75
BLOOD	3.3
DNA	2.81
DNA	0.549
DNA	0.552
DNA	0.638
BLOOD	2.45
DNA	1.01
BLOOD	3.15
BLOOD	2.44
DNA	0.777
BLOOD	3.08
QABR	2.56
BLOOD	2.74
DNA	0.888
DNA	0.975

BLOOD	3.06
BLOOD	2.48
DNA	1.5
DNA	1.24
BLOOD	2.99
QABR	3.28
QABR	2.47
QABR	2.58
DNA	0.954
DNA	1.02
BLOOD	2.67
BLOOD	2.84
BLOOD	2.8
DNA	1.46
DNA	0.821
BLOOD	2.14
BLOOD	2.83
BLOOD	2.59
DNA	1.42
QABR	3.08
DNA	0.859
BLOOD	3.03
BLOOD	2.5
DNA	0.747
QABR	2.71
BLOOD	3.04
BLOOD	3.66
CSUP	1.84
BLOOD	3.33
BLOOD	3.62
DNA	1.56
BLOOD	2.61
BLOOD	3.41
DNA	1.15
BLOOD	3.25
DNA	1.02
QABR	2.99
BLOOD	2.93
DNA	0.685
DNA	1.08
DNA	0.717
QAB	3.39
QAB	3.1
BLOOD	3.41
BLOOD	3.9
DNA	0.877
DNA	0.818
BLOOD	3.53
DNA	0.999
BLOOD	3.96

BLOOD	3.34
BLOOD	3.67
BLOOD	3.24
BLOOD	3.51
BLOOD	3.87
DNA	1.43
DNA	0.94
BLOOD	2.85
BLOOD	2.93
BLOOD	3.1
BLOOD	1.14
BLOOD	3.15
DNA	0.526
DNA	0.687
BLOOD	3.19
DNA	0.835
BLOOD	3.19
DNA	0.617
DNA	0.693
BLOOD	4.13
QABR	3.23
DNA	0.679
BLOOD	3.37
DNA	0.517
BLOOD	3.67
DNA	0.662
BLOOD	3.16
BLOOD	Not used
BLOOD	3.03
DNA	0.911
DNA	0.669
DNA	0.688
BLOOD	3.96
BLOOD	2.23
CSUP	1.36
DNA	0.715
DNA	0.757
DNA	0.78
BLOOD	2.79
BLOOD	3.23
BLOOD	3.43
BLOOD	3.11
DNA	0.876
BLOOD	3
NUCT	0.632
BLOOD	3.67
BLOOD	3.59
BLOOD	3.31
DNA	0.814
DNA	0.794

BLOOD	2.29
BLOOD	3.17
DNA	0.753
DNA	0.801
DNA	0.8
BLOOD	3.54
BLOOD	2.63
BLOOD	2.99
DNA	0.561
DNA	0.827
QABR	2.13
BLOOD	0.901
BLOOD	3.07
BLOOD	0.907
BLOOD	3.57
BLOOD	4.33
BLOOD	3.68
BONE	6.44
DNA	0.935
DNA	0.856
BLOOD	2.68
BLOOD	2.49
BLOOD	3.19
BLOOD	2.49
BLOOD	2.73
BLOOD	2.54
QABR	2.92
CSUP	0.999
DNA	0.803
DNA	0.938
DNA	0.76
BLOOD	2.83
DNA	0.989
BLOOD	3.23
DNA	0.798
BLOOD	3.3
DNA	0.672
DNA	0.915

Lab No	Spec	FBQUAN
	ELYS	0.498
	SLYS	0.0124
	ELYS	0.0673
	SLYS	0.0353
	ELYS	Not used
	ELYS	0.0675
	SLYS	0.0365
	ELYS	0.195
	SLYS	Undetermined
	ELYS	0.42
	SLYS	0.0134
	EFRAC	0.0534
	SFRAC	0.0272
	EFRAC	0.0442
	SFRAC	0.0341
	ELYS	0.0214
	SLYS	Undetermined
	EFRAC	0.027
	SFRAC	0.00163
	EFRAC	0.0238
	SFRAC	0.00374
	EFRAC	0.0304
	SFRAC	Undetermined
	ELYS	1.91
	SLYS	0.0235
	SLYS	0.0132
	ELYS	1.86
	ELYS	0.108
	SLYS	0.0101
	EFRAC	1.48
	SFRAC	Undetermined
	ELYS	1.88
	SLYS	0.0116
	EFRAC	2.44
	SFRAC	0.0169
	ELYS	2.68
	SLYS	0.0155
	ELYS	3.29
	SLYS	0.0141
	SEMEN	3.1752
	SEMEN	2.2362
	ELYS	0.22
	SLYS	0.00945
	ELYS	2.86
	SLYS	0.0441
	ELYS	0.55
	ELYS	Not used
	SLYS	0.033
	ELYS	0.451

SLYS	0.0119
EFRAC	1.66
SFRAC	0.0144
ELYS	0.333
SLYS	0.0226
SFRAC	0.0417
EFRAC	0.164
EFRAC	0.15
SFRAC	0.00307
ELYS	0.238
SLYS	0.0221
ELYS	2.21
SLYS	0.0184
EFRAC	0.486
SFRAC	0.0123
ELYS	0.401
SLYS	0.0215
ELYS	0.182
SLYS	0.0199
EFRAC	0.291
SFRAC	0.017
EFRAC	0.569
SFRAC	0.0267
EFRAC	0.275
SFRAC	0.00944
SLYS	0.00872
ELYS	0.258
SFRAC	0.0095
EFRAC	1.12
EFRAC	0.298
SFRAC	0.0224
EFRAC	1.09
SFRAC	0.0306
SLYS	0.0209
ELYS	0.248
SLYS	0.00293
ELYS	0.246
SLYS	0.0116
ELYS	0.549
ELYS	0.277
SLYS	0.00941
SLYS	0.0203
ELYS	1.29
EFRAC	1.25
SFRAC	0.0129
EFRAC	1.66
SFRAC	0.0274
SLYS	0.041
ELYS	0.388
ELYS	0.416

SLYS	0.0318
ELYS	1.85
SLYS	0.0466
EFAC	0.365
SFRAC	0.0117
ELYS	1.11
SLYS	0.0224
ELYS	0.318
SLYS	0.036
VALS	0.298
VALS	0.0364
VALS	0.318
VALS	0.0331
VALS	1.44
VALS	0.026
ELYS	0.339
SLYS	0.0229
ELYS	0.421
SLYS	0.0349
ELYS	0.389
SLYS	0.0151
ELYS	3.26
SLYS	0.403
ELYS	2.14
SLYS	0.199
ELYS	2.66
SLYS	0.498
ELYS	2.29
SLYS	0.0274
ELYS	3.15
SLYS	0.135
ELYS	3.78
SLYS	0.284
ELYS	2.49
SLYS	0.439
ELYS	2.26
SLYS	0.369
ELYS	0.0557
SLYS	0.151
ELYS	0.137
SLYS	0.0838
ELYS	0.0281
SLYS	0.0805
ELYS	0.13
SLYS	0.491
ELYS	0.0118
SLYS	0.0593
ELYS	0.0361
SLYS	0.222
ELYS	0.0154

SLYS	0.3
EFRAC	0.0169
SFRAC	0.232
EFRAC	0.0373
SFRAC	0.414
ELYS	0.235
SLYS	0.316
SEMEN	4.98
SEMEN	0.583
SEMEN	4.38
SEMEN	0.559
ELYS	0.0471
SLYS	0.601
ELYS	0.0542
SLYS	0.289
ELYS	0.0473
SLYS	0.166
ELYS	Undetermined
ELYS	0.149
SLYS	Undetermined
SLYS	0.015
ELYS	Undetermined
ELYS	0.139
SLYS	Undetermined
SLYS	0.156
ELYS	0.0597
SLYS	0.125

pec	FBQUAN
LOOD	1.83
LOOD	1.99
LOOD	1.13
LOOD	2.73
RE	2.82
RE	2.61
LOOD	2.17
LOOD	2.55
LOOD	1.69
LOOD	1.73
LOOD	2.81
LOOD	2.51
LOOD	3.09
LOOD	3.35
LOOD	2.58
LOOD	1.67
LOOD	1.49
LOOD	2.46
LOOD	1.91
LOOD	2.5
LOOD	2.45
LOOD	2.82
DNA	0.94
LOOD	2.7
LOOD	2.33
LOOD	1.8
LOOD	2.66
LOOD	Not used
LOOD	2.82
LOOD	1.73
RANS	0.295
LOOD	Undetermined
DNA	1.5
LOOD	1.4
LOOD	0.596
LOOD	1.73
LOOD	2.57
LOOD	2.17
DABR	2.65
DABR	1.88
DABR	2.36
LOOD	2.17
LOOD	4.28
LOOD	3.44
LOOD	2.59
LOOD	2.73
LOOD	2.94
LOOD	2.7
LOOD	2.91

LOAD	2.81
LOAD	0.0164
LOAD	2.53
LOAD	2.32
LOAD	2.46
LOAD	2.51
LOAD	2.43
LOAD	2.44
DNA	0.843
DNA	0.885
DNA	0.278
RE	1.8
RE	1.42
RE	1.19
RE	2.43
DNA	0.704
LOAD	2.34
LOAD	2.64
LOAD	1.63
LOAD	2.61
LOAD	2.48
LOAD	2.06
LOAD	1.93
LOAD	2.09
LOAD	2.08
LOAD	2.65
LOAD	2.75
DNA	0.605
DNA	0.624
LOAD	2.4
LOAD	2.93
SUP	1.17
LOAD	1.89
DNA	0.776
DNA	0.685
LOAD	2.51
LOAD	1.92
DABR	1.89
DABR	2.36
DABR	2.57
LOAD	1.36
LOAD	2.14
LOAD	1.85
LOAD	2.82
LOAD	2.49
LOAD	2.75
LOAD	1.3
LOAD	1.9
DNA	0.951
DABR	2.28

LOAD	1.82
LOAD	2.07
LOAD	2.08
LOAD	1.51
LOAD	1.9
RE	2.23
DNA	0.605
QABR	1.74
QABR	2.88
LOAD	1.76
LOAD	2.13
LOAD	2.07
LOAD	1.89
LOAD	2.22
LOAD	1.71
LOAD	2.91
LOAD	2.89
LOAD	2.98
LOAD	2.43
LOAD	Not used
LOAD	2.34
LOAD	2.03
LOAD	2.31
DNA	0.411
LOAD	1.5
LOAD	2.57
LOAD	2.81
LOAD	1.16
LOAD	2.65
QABR	2.69
QABR	2.5
QABR	2.08
DNA	0.535
LOAD	1.98
LOAD	1.61
LOAD	1.84
LOAD	1.58
LOAD	1.49
LOAD	1.52
DNA	1.33
DNA	0.76
LOAD	2.53
LOAD	1.84
LOAD	2.25
LOAD	2.79
SUP	1.51
LOAD	3.49
QABR	3.33
QABR	2.66
LOAD	1.85

DNA	1.22
DABR	1.94
LOOD	3.56
LOOD	3.09
LOOD	3.12
DNA	1.01
LOOD	2.16
LOOD	2.21
LOOD	1.78
LOOD	2.42
DNA	0.644
LOOD	3.41
LOOD	2.43
DABR	Undetermined
LOOD	2.49
LOOD	2.77
LOOD	Not used
DNA	0.854
LOOD	2.71
LOOD	3.28
LOOD	2.06
LOOD	2.17
LOOD	2.21
LOOD	2.2
LOOD	1.53
LOOD	1.56
DABR	1.72
DABR	1.76
DABR	1.83
LOOD	1.91
LOOD	0.942
DNA	1.23
LOOD	0.989
LOOD	1.31
LOOD	1.48
LOOD	1.97
DNA	1.81
RANS	0.172
LOOD	1.44
LOOD	1.68
LOOD	2.61
DNA	0.567
DNA	0.758
LOOD	1.53
LOOD	1.54
LOOD	2.4
LOOD	1.87
DNA	0.859
DNA	Not used
LOOD	2.29

LOAD	2.05
LOAD	2.23
LOAD	2.16
LOAD	2.1
DNA	0.707
LOAD	2.02
QABR	2.17
LOAD	2.08
LOAD	1.31
QABR	2.36
LOAD	2.11
LOAD	2.22
SUP	1.59
QABR	2.11
QABR	2.23
DNA	1.04
LOAD	0.765
LOAD	1.04
LOAD	1.31
LOAD	1.97
LOAD	1.71
LOAD	1.3
LOAD	1.78
LOAD	1.46
LOAD	2.15
LOAD	1.82
LOAD	1.38
LOAD	2.06
LOAD	1.84
DNA	0.857
DNA	0.61
DNA	0.647
DNA	0.798
DNA	0.637
LOAD	2.58
LOAD	1.22
QABR	1.46
LOAD	1.15
LOAD	1.73
LOAD	1.65
LOAD	1.51
DNA	0.623
RE	1.49
LOAD	1.65
LOAD	1.76
LOAD	1.54
DNA	1.42
LOAD	1.91
LOAD	1.3
LOAD	2.32

LOAD	1.31
LOAD	1.67
LOAD	2.57
QABR	2.99
DNA	0.947
LOAD	1.41
LOAD	1.7
LOAD	1.91
LOAD	1.1
LOAD	1.49
LOAD	1.66
DNA	0.656
LOAD	1.15
LOAD	1.76
LOAD	1.2
LOAD	2.27
LOAD	2.05
LOAD	1.48
DNA	1.11
LOAD	1.65
LOAD	1.95
LOAD	2.09
DNAD	0.291
DNA	0.619
LOAD	1.77
LOAD	1.96
SUP	2.47
LOAD	2.23
LOAD	3
DNA	1.53
LOAD	2.29
LOAD	3.05
LOAD	2.59
LOAD	3.57
DNA	1.33
LOAD	2.79
LOAD	2.83
LOAD	3.31
LOAD	2.32
LOAD	1.19
LOAD	3.16
LOAD	2.43
LOAD	3.75
QABR	3.76
QABR	2.59
LOAD	3.2
QAB	3.02
QABR	2.85
QABR	2.61
QAB	3.54

LOAD	2.33
DNA	1.26
DNA	1.27
RE	2.24
DNA	1.57
DNA	1.36
DNA	1.81
LOAD	3.13
LOAD	4.74
LOAD	3.33
LOAD	3.25
LOAD	2.69
LOAD	3.16
DNA	0.574
LOAD	3.35
LOAD	2.21
ONE	2.09
LOAD	2.47
LOAD	3.56
DNA	1.15
LOAD	0.949
LOAD	2.77
LOAD	2.96
LOAD	2.92
LOAD	2.35
LOAD	2.82
DNA	1.41
DNA	0.759
LOAD	1.99
LOAD	1.88
LOAD	1.89
LOAD	2.92
LOAD	3
LOAD	2.35
LOAD	3.39
LOAD	3.32
DNA	1
LOAD	3.84
RE	2.57
RE	3.27
RANS	2.4
LOAD	3.13
LOAD	4.36
LOAD	4.12
LOAD	2.62
DNA	0.853
RE	3.01
LOAD	3.17
LOAD	3.07
LOAD	3.51

LOAD	3.09
LOAD	3.01
LOAD	3.07
LOAD	3.62
RE	3.18
LOAD	2.79
LOAD	2.76
LOAD	3.18
DNA	0.585
QAB	3.2
QAB	2.15
SUP	1.88
ONE	0.869
QABR	2.41
LOAD	1.78
LOAD	3.03
LOAD	2.83
DNA	1.68
DNA	0.724
QABR	2.96
QABR	3.44
DNA	0.988
LOAD	2.05
LOAD	3.32
LOAD	2.54
LOAD	3.94
DNA	0.792
DNA	1.17
LOAD	3.26
LOAD	3.56
LOAD	2.84
LOAD	3.07
LOAD	3.09
LOAD	3.07
DNA	1.06
LOAD	3.33
LOAD	2.37
LOAD	3.07
LOAD	3.75
LOAD	3.75
LOAD	3.21
LOAD	3.58
DNA	1.42
LOAD	3.31
LOAD	3.66
LOAD	3.33
DNA	1.44
LOAD	3.25
LOAD	3.56
LOAD	3.35

DNA	1.42
LOOD	1.98
LOOD	2.74
LOOD	2.17
ONE	1.54
RE	2.41
SUP	1.96
LOOD	2.4
RE	2.09
LOOD	2.71
LOOD	1.72
LOOD	1.87
LOOD	1.89
LOOD	2.53
LOOD	2.47
DNA	1.14
LOOD	2.2
LOOD	2.39
RE	2.12
RE	2.08
LOOD	2.75
DNA	1.29
LOOD	3.08
RE	2.32
LOOD	1.97
LOOD	1.7
LOOD	2.71
DNA	0.684
DNA	0.671
LOOD	3.84
LOOD	3.24
LOOD	3.14
DNA	0.848
DNA	1.1
DNA	0.87
RE	2.38
LOOD	1.51
LOOD	1.63
QAB	2.32
LOOD	2.33
RE	2.04
LOOD	1.33
LOOD	2.82
LOOD	0.00741
LOOD	3.29
DNA	1.37
QAB	2.87
DNA	0.935
QAB	1.89
QAB	2.62

DNA	0.968
QAB	2.85
QAB	2.42
QAB	2.54
QAB	3.52
DNA	0.525
DNA	0.635
DNA	0.71
DNA	0.711
DNA	0.456
DNA	0.675
DNA	0.725
DNA	1.01
DNA	1.85
DNA	1.97
DNA	1.8
QAB	2.3
RE	2.97
RE	3.24
QAB	1.87
QAB	3.23
QAB	1.56
QAB	1.81
QAB	2.02
QAB	2.37
QAB	2.86
QAB	2.62
QAB	2.68
QAB	2.61
DNA	0.698
DNA	0.435
DNA	1.13
DNA	0.87
DNA	0.875
DNA	1.54
DNA	1.17
DNA	1.81
DNA	1.4
QAB	2.31
QAB	2.39
QAB	2
QAB	2.26
QAB	2.99
QAB	2.57
QAB	1.66
QAB	3.18
QAB	2.53
QAB	2.3
QAB	2.2
QAB	2.52

DNA	0.827
QAB	2.87
QAB	3.03
LOOD	2.19
LOOD	2.43
DNA	0.469
LOOD	3.26
LOOD	2.45
LOOD	3.11
LOOD	2.47
LOOD	2.13
LOOD	2.77
LOOD	3.21
LOOD	2.26
DNA	0.804
QABR	2.19
LOOD	2.91
DNA	1.22
RE	1.46
RE	2.2
DNA	1.65
DNA	1.36
DNA	2.4
LOOD	2.45
LOOD	2.89
LOOD	2.82
LOOD	3.09
LOOD	2.09
LOOD	2.15
QABR	2.32
DNA	1.81
LOOD	2.73
SUP	1.61
LOOD	2.56
LOOD	1.76
DNA	1.11
LOOD	2.08
LOOD	1.54
LOOD	2.81
LOOD	2.25
DNA	0.95
RE	2.39
RE	2.58
LOOD	2.21
LOOD	2.1
LOOD	2.3
RE	3.05
LOOD	1.45
LOOD	2.7
DNA	0.99

LOAD	2.28
LOAD	2.99
LOAD	2.97
LOAD	1.9
LOAD	2.62
LOAD	1.99
LOAD	2.02
LOAD	2.23
DNA	0.713
DABR	1.88
DABR	2.05
DABR	2.85
LOAD	2.15
LOAD	1.94
LOAD	2.23
DNA	0.812
LOAD	2.64
LOAD	2.25
LOAD	1.78
LOAD	2.6
LOAD	2.44
LOAD	2.88
LOAD	1.69
LOAD	1.93
DNA	0.696
LOAD	1.36
LOAD	1.48
LOAD	1.81
LOAD	1.62
LOAD	2.56
LOAD	2.85
LOAD	2.44
LOAD	1.55
LOAD	2.04
DNA	1.44
DNA	0.698
LOAD	2.36
LOAD	2.46
LOAD	2.47
LOAD	2.16
LOAD	1.68
SUP	2.27
RE	1.59
LOAD	1.59
LOAD	1.82
LOAD	1.72
LOAD	2.24
LOAD	1.57
DNA	0.355
LOAD	2.11

DNA	0.776
RE	1.27
LOOD	1.59
LOOD	2.06
LOOD	2.23
LOOD	1.68
LOOD	1.47
LOOD	1.57
LOOD	1.96
LOOD	1.6
RE	2.2
RE	Undetermined
LOOD	1.53
LOOD	1.94
RE	2.3
RE	1.49
DNA	0.765
DNA	0.503
LOOD	1.58
LOOD	2.03
LOOD	2.09
LOOD	1.53
DNA	0.676
LOOD	1.75
LOOD	2.18
LOOD	1.41
DNA	0.693
LOOD	1.45
LOOD	1.99
LOOD	1.87
NUCT	1.53
LOOD	1.57
LOOD	1.67
DNA	0.666
LOOD	1.49
RE	1.59
DNA	0.702
LOOD	2.25
LOOD	1.3
LOOD	0.816
LOOD	1.99
SUP	1.23
LOOD	1.13
LOOD	2.02
DNA	1.13
DNA	0.79
LOOD	2.18
LOOD	1.69
LOOD	1.66
LOOD	1.87

LOAD	1.07
LOAD	1.63
LOAD	1.64
LOAD	1.67
LOAD	1.8
DNA	0.821
DNA	1.42
DNA	1.13
DNA	0.746
LOAD	2.48
LOAD	2.38
LOAD	2.73
DNA	0.62
LOAD	1.46
LOAD	1.23
LOAD	1.72
DNA	0.566
DNA	0.76
LOAD	0.878
LOAD	1.67
LOAD	2.26
LOAD	1.79
LOAD	1.49
DNA	0.96
DNA	0.29
LOAD	1.61
LOAD	1.86
LOAD	2.28
LOAD	1.81
LOAD	1.78
DNA	0.316
LOAD	2.27
LOAD	2.03
LOAD	2.11
LOAD	2.57
LOAD	2.28
LOAD	1.16
DNA	0.416
DNA	0.367
LOAD	2.18
DNA	0.63
LOAD	2.37
LOAD	1.92
LOAD	2.2
LOAD	2.38
LOAD	2.38
LOAD	2.62
DAB	2.69
RE	2.36
DAB	1.73

DNA	0.73
RE	2.76
LOOD	2.78
DNA	1.57
LOOD	2.48
LOOD	2.29
DNA	0.912
DNA	0.821
DAB	2.87
LOOD	2.37
LOOD	2.34
LOOD	2.82
DNA	0.774
LOOD	2.98
LOOD	2.45
LOOD	2.19
LOOD	2.07
LOOD	1.62
DAB	2.29
DAB	1.99
DAB	2.39
DAB	2.36
DNA	0.903
RE	2.45
LOOD	1.98
LOOD	2.06
LOOD	1.79
LOOD	2
LOOD	1.97
LOOD	1.99
LOOD	1.77
LOOD	2.05
DNA	0.866
LOOD	2.74
LOOD	2.45
RE	2.84
RE	2.7
LOOD	2.42
LOOD	2.89
LOOD	2.59
LOOD	2.33
DNA	0.956
LOOD	2.51
LOOD	2.94
LOOD	2.31
LOOD	2.32
LOOD	2.24
LOOD	2.52
LOOD	2.64
LOOD	2.85

LOOD	2.99
LOOD	2.43
LOOD	1.95
LOOD	1.99
LOOD	2.9
LOOD	1.84
LOOD	2.33
LOOD	2.28
LOOD	2.57
LOOD	2.15
LOOD	2.09
SUP	2.59
LOOD	2.45
DNA	0.997
RE	2.44
RE	3.23
DNA	0.825
DNA	Not used
DNA	Not used
DNA	Not used
DNA	Not used
DNA	0.907
DNA	0.841
LOOD	2.43
LOOD	2.75
QAB	1.46
QAB	1.88
RE	1.83
QAB	2.11
QAB	2.39
DNA	0.622
LOOD	2
LOOD	1.69
LOOD	2.3
LOOD	1.99
LOOD	2.22
DNA	0.519
LOOD	2.4
LOOD	2.44
LOOD	2.55
LOOD	2.03
LOOD	2.07
LOOD	1.57
LOOD	1.23
LOOD	2.37
LOOD	1.94
LOOD	1.51
LOOD	0.964
DNA	0.614
DNA	1.74

QABR	1.81
QABR	2.3
LOOD	2
DNA	1.39
LOOD	2.22
LOOD	2.41
DNA	1.2
DNA	2.06
LOOD	2.13
QAB	1.95
LOOD	2.56
LOOD	2.22
DNA	1.22
QAB	1.92
QAB	2.13
DNA	0.415
ONE	5.3
SUP	1
LOOD	2.12
LOOD	2.09
LOOD	2.16
LOOD	2.38
LOOD	1.5
LOOD	2.18
LOOD	1.83
DNA	1.18
LOOD	1.06
LOOD	1.39
LOOD	1.59
DNA	0.833
LOOD	2.72
LOOD	2.67
DNA	1.79
DNA	0.96
LOOD	2.13
LOOD	2.62
LOOD	1.94
LOOD	1.62
LOOD	1.46
LOOD	1.56
SUP	0.572
RE	1.19
LOOD	2.32
LOOD	1.6
LOOD	1.94
LOOD	1.59
LOOD	2.54
DNA	0.854
LOOD	2.05
LOOD	2.96

LOAD	2.15
LOAD	2.48
LOAD	2.22
LOAD	2.39
DNA	1.46
LOAD	1.88
LOAD	1.79
LOAD	2.4
LOAD	2.49
LOAD	2.02
DABR	2.71
LOAD	2.45
LOAD	2.22
LOAD	2.29
LOAD	2.4
LOAD	2.64
DNA	0.608
LOAD	2.21
RE	1.99
RE	1.53
LOAD	2.48
DNA	2.21
DNA	0.663
LOAD	2.04
LOAD	2.23
LOAD	1.77
LOAD	2.16
LOAD	1.91
LOAD	2.88
LOAD	1.35
LOAD	2.38
LOAD	2.36
LOAD	2.79
LOAD	2.26
LOAD	2.68
DNA	0.634
LOAD	2.48
LOAD	1.21
SUP	1.61
DABR	1.36
DNA	0.448
DABR	2.9
LOAD	2.29
LOAD	1.67
LOAD	2.2
LOAD	2.02
LOAD	2.96
LOAD	2.63
DABR	2.66
LOAD	2.33

ALB	2.73
ONE	2
DNA	1.55
DABR	2.29
LOOD	1.39
RANS	0.201
LOOD	0.00074
LOOD	2.48
LOOD	3.04
LOOD	2.65
LOOD	2.6
DNA	0.678
DNA	1.49
LOOD	2.49
LOOD	2.83
LOOD	2.78
NUCT	3.63
DNA	1.11
LOOD	2.42
LOOD	2.06
LOOD	2
LOOD	1.3
DABR	2.45
SUP	1.45
LOOD	2.5
LOOD	2.3
LOOD	2.58
LOOD	2.12
LOOD	2.47
LOOD	2.92
LOOD	2.18
LOOD	1.96
LOOD	2.64
LOOD	1.71
DNA	0.31
DNA	0.337
LOOD	2.05
LOOD	1.79
LOOD	1.94
LOOD	2.17
DNA	1.71
LOOD	1.98
LOOD	1.92
LOOD	2.01
DNA	0.147
LOOD	1.53
LOOD	2.46
DNA	0.856
LOOD	2.24
LOOD	2.13

DNA	0.917
SUP	1.98
LOOD	0.409
LOOD	1.89
DABR	2.06
SUP	1.32
DNA	0.42
LOOD	2.45
ONE	2.29
ALB	1.96
ONE	1.95
ALB	1.7
ALB	1.68
RE	1.45
LOOD	1.76
LOOD	1.44
LOOD	2.24
LOOD	2.29
DNA	0.617
LOOD	1.89
LOOD	1.92
LOOD	1.31
LOOD	1.92
DNA	0.574
LOOD	1.93
LOOD	1.68
DNA	1.24
DNA	0.669
DNA	0.871
LOOD	2.24
LOOD	1.93
LOOD	2
RE	1.39
RE	1.43
LOOD	2.4
LOOD	2.22
LOOD	2.26
LOOD	2.67
LOOD	2.6
SUP	1.4
LOOD	2.35
DNA	1.08
RE	1.98
LOOD	2.17
LOOD	1.82
DNA	0.672
LOOD	2.08
LOOD	2.01
LOOD	1.87
LOOD	2.12

LOAD	2.24
LOAD	2.07
LOAD	2.3
LOAD	1.25
NUCT	1.95
LOAD	1.31
RE	1.75
LOAD	1.35
DNA	1.06
LOAD	1.72
SECT	1.43
DNA	0.675
LOAD	2.26
LOAD	2.07
LOAD	Not used
LOAD	1.36
LOAD	1.75
ALB	2.11
ALB	2.21
LOAD	1.47
LOAD	1.77
LOAD	2.16
LOAD	2.13
LOAD	2.22
DNA	0.652
NUCT	3.06
LOAD	1.52
RE	2.35
LOAD	2.44
LOAD	2.38
LOAD	2.63
LOAD	1.57
LOAD	2.21
LOAD	1.68
LOAD	2.79
LOAD	1.54
LOAD	1.88
SUP	1.63
LOAD	1.98
LOAD	2.29
LOAD	Not used
LOAD	1.88
DNA	0.566
LOAD	0.834
LOAD	2.09
LOAD	2.1
LOAD	2.27
LOAD	1.88
LOAD	1.52
RE	2.45

RE	2.38
LOOD	1.58
ONE	1.9
LOOD	1.44
LOOD	1.97
LOOD	1
LOOD	2.52
LOOD	2.3
DNA	1.52
RE	3.03
LOOD	2.03
LOOD	1.65
DNA	1.21
LOOD	2.7
LOOD	2.95
RE	2.25
RE	2.64
SUP	1.86
LOOD	2.66
LOOD	2.81
DNA	1.5
DNA	1.99
DNA	0.531
DNA	1.64
DNA	0.652
DAB	2.44
DAB	1.86
DAB	2.22
LOOD	2.99
LOOD	2.01
LOOD	2.21
LOOD	2.05
LOOD	2.96
LOOD	2.11
DNA	0.825
LOOD	1.67
DNA	0.847
DNA	0.886
RE	1.46
RE	2.08
RE	1.69
LOOD	1.88
LOOD	1.21
DNA	0.526
DNA	0.699
DNA	0.548
LOOD	2.31
RE	2.32
LOOD	0.926
LOOD	1.72

LOAD	2.33
LOAD	2.24
LOAD	1.27
LOAD	1.75
DNA	0.466
DNA	0.439
DNA	0.708
DNA	0.477
DNA	0.526
DNA	0.477
DNA	1.32
DNA	0.874
DNA	0.948
LOAD	2
LOAD	1.62
DNA	1.12
LOAD	1.95
LOAD	Not used
LOAD	1.29
LOAD	1.67
DNA	0.638
LOAD	2.29
LOAD	2.05
RE	2.44
DNA	0.974
SUP	1.45
DNA	0.637
LOAD	2.02
DNA	0.86
LOAD	2.3
LOAD	2.37
LOAD	1.94
LOAD	2.09
DNA	0.812
DNA	0.835
LOAD	2.3
LOAD	1.95
RE	2.07
LOAD	2.04
LOAD	2.49
LOAD	2.4
DNA	0.693
DNA	0.534
LOAD	2.17
LOAD	2.18
LOAD	2.22
LOAD	2.24
DNA	0.527
DNA	0.531
DNA	0.605

NUCT	2.08
LOAD	2.17
LOAD	2.4
DNA	0.94
LOAD	2.41
LOAD	2.27
DNA	0.721
ONE	4.09
RE	2.83
DNA	0.634
DNA	0.579
DNA	0.522
LOAD	1.94
LOAD	2.35
LOAD	2.24
LOAD	2.06
LOAD	1.66
DNA	0.928
DNA	1.34
DNA	0.782
DNA	0.924
DABR	3.89
LOAD	2.84
LOAD	4.25
RE	2.67
DNA	1.52
RE	3.02
LOAD	3.14
DNA	1.82
LOAD	2.18
SUP	1.09
DNA	1.47
DNA	0.911
LOAD	1.9
RE	2.02
LOAD	2.7
LOAD	2.28
DNA	1.11
LOAD	2.21
LOAD	2.07
LOAD	1.87
DNA	0.815
NUCT	1.51
LOAD	2.49
LOAD	2.81
LOAD	2.27
RE	2.28
LOAD	1.21
DNA	0.624
DNA	Not used

DNA	0.814
DNA	0.624
DNA	0.865
DNA	0.0546
LOAD	2.5
DNA	1.09
LOAD	2.23
LOAD	2.44
LOAD	2.51
LOAD	2.08
LOAD	1.93
LOAD	1.53
LOAD	1.74
LOAD	2.3
RE	2.19
LOAD	2.41
DNA	0.484
DNA	0.808
DNA	Not used
DNA	0.766
LOAD	2.36
LOAD	3.52
DNA	0.953
DNA	0.615
DNA	1.53
LOAD	2.46
LOAD	2.84
LOAD	2.31
RE	3.14
RE	2.38
LOAD	2.14
LOAD	2.55
LOAD	2.64
DNA	0.941
DNA	0.856
DNA	0.965
RE	2.79
DNA	0.84
LOAD	2.05
LOAD	2.31
LOAD	2.36
LOAD	2.69
DNA	1.17
DNA	0.717
LOAD	2.5
DNA	0.755
LOAD	2.17
DNA	0.528
LOAD	2.51
LOAD	2.19

LOOD	2.02
LOOD	2.52
LOOD	1.91
DNA	0.887
LOOD	1.95
DNA	0.831
LOOD	2.02
LOOD	2.25
LOOD	2.67
LOOD	2.14
LOOD	Not used
DNA	0.852
DNA	1.12
LOOD	2.24
LOOD	2.28
LOOD	2.5
DNA	0.48
SUP	0.00964
RE	0.564
LOOD	0.0134
DNA	0.805
LOOD	0.00592
DNA	0.944
LOOD	2.99
RANS	1.78
DNA	0.102
LOOD	2.99
LOOD	2.78
LOOD	2.46
LOOD	3.36
QABR	2.01
QABR	3.84
LOOD	2.03
DNA	0.0508
DNA	1.43
NUCT	3.86
LOOD	3.09
LOOD	2.06
DNA	1.42
LOOD	3.01
LOOD	1.81
LOOD	2.53
DNA	0.902
LOOD	1.63
LOOD	1.86
LOOD	2.2
LOOD	3.4
DNA	1.62
DNA	0.837
RE	3.67

RE	2.37
DNA	0.425
DNA	1.95
RE	2.6
LOOD	2.29
LOOD	2.42
LOOD	2.99
LOOD	2.35
LOOD	2.41
LOOD	1.79
LOOD	3.43
LOOD	2.45
DNA	0.828
DNA	0.636
DNA	1.17
LOOD	2.8
LOOD	2.94
RE	3.05
RE	2.62
LOOD	3.07
LOOD	2.86
LOOD	0.0201
LOOD	0.0282
LOOD	2.68
LOOD	2.68
LOOD	2.21
DNA	0.769
SUP	2.29
DNA	0.827
DNA	0.77
QAB	0.0493
QAB	0.0305
QAB	0.0298
QAB	0.0445
DNA	0.556
DDNA	0.26
LOOD	0.0231
LOOD	0.0254
LOOD	0.0131
LOOD	0.0151
LOOD	0.0148
LOOD	0.0196
LOOD	0.00558
LOOD	0.0143
LOOD	0.0128
LOOD	0.0253
LOOD	0.02
LOOD	0.0187
LOOD	0.0218
LOOD	0.0161

LOAD	0.0148
LOAD	0.0103
DNA	0.895
LOAD	2.65
LOAD	2.46
LOAD	2.29
DNA	1.01
DNA	0.744
DNA	0.921
DNA	0.717
DNA	0.882
DNA	1.41
DNA	0.918
DNA	1.08
DNA	1.66
DNA	1.61
LOAD	2.64
LOAD	3.81
LOAD	2.61
DNA	1.24
DNA	0.579
DNA	1.24
DNA	1.12
LOAD	0.0115
DNA	1.66
DNA	1.19
DNA	1.1
DNA	1.4
DNA	1.07
DNA	1.74
DNA	1.5
DNA	1.89
DNA	2.12
DNA	Not used
DNA	1.14
LOAD	0.0213
LOAD	0.0288
LOAD	0.0121
DNA	1.76
LOAD	0.123
SUP	0.368
QABR	0.0108
QABR	0.0169
DNA	1.07
LOAD	0.0904
LOAD	0.0443
DNA	1.45
LOAD	0.00786
LOAD	0.0231
LOAD	0.0166

LOAD	0.0412
DNA	2.27
LOAD	0.0286
DNA	0.754
LOAD	0.00645
LOAD	2.7
LOAD	3.84
LOAD	2.65
DNA	0.96
LOAD	3.73
DNA	1.06
LOAD	3.35
SUP	1.8
LOAD	3.18
DNA	1.51
DNA	1.63
DNA	1.65
DNA	1.33
LOAD	Not used
LOAD	2.75
LOAD	1.55
LOAD	2.95
LOAD	2.77
LOAD	2.44
LOAD	2.37
DNA	1.3
DNA	0.753
DNA	0.574
LOAD	2.69
DNA	0.955
DNA	1.42
LOAD	3.16
RE	3.16
LOAD	3.44
DNA	0.677
RE	2.41
ALE	1.37
ALE	3.88
ALE	1.75
ALE	3.9
DNA	0.895
LOAD	3.23
DNA	1.08
LOAD	2.68
ALE	1.24
ALE	2.29
LOAD	1.68
LOAD	1.96
DNA	0.64
DNA	0.892

LOOD	2.17
LOOD	2.12
DNA	0.712
LOOD	1.24
LOOD	1.92
DNA	0.902
DNA	0.764
SUP	1.73
LOOD	2.81
DNA	0.809
LOOD	2.97
LOOD	3.78
DNA	0.83
LOOD	3.26
DNA	0.834
DNA	1.54
DNA	Not used
DNA	0.987
LOOD	2.07
LOOD	2.34
DNA	0.737
DNA	0.675
LOOD	2.78
LOOD	2.54
LOOD	2.48
ALE	0.313
ALE	0.564
DNA	0.531
DNA	0.567
ALE	3.57
LOOD	2.19
DNA	0.441
LOOD	1.38
LOOD	1.91
DNA	0.416
DNA	0.592
DNA	0.597
LOOD	2.92
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DNA	0.571
DNA	0.332
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DNA	0.6
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DNA	0.506
LOOD	1.99
RE	1.74
RE	1.95
LOOD	2.61
LOOD	3.11

DNA	0.305
LOAD	2.62
DNA	0.444
LOAD	2.1
DNA	0.463
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LOAD	2.23
SUP	1.36
DNA	0.751
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DNA	0.429
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LOAD	2.74
DNA	0.356
LOAD	2.95
DNA	0.642
RANS	1.95
LOAD	2.17
SUP	1.61
LOAD	1.81
LOAD	2.4
DNA	0.759
LOAD	3
LOAD	2.63
RE	2.92
DNA	0.295
DNA	0.486
DNA	0.284
LOAD	2.54
LOAD	2.72
LOAD	3.95
LOAD	3.23
LOAD	3.2
LOAD	2.23
DNA	0.314
DNA	0.298
DNA	0.257
RE	2.6
RE	1.94
RE	2.35
RE	1.89
RE	2.29
LOAD	3.28
DNA	0.273
LOAD	3.08
LOAD	2.56
LOAD	2.47
DNA	0.207
LOAD	1.84
LOAD	1.93

QAB	2.83
SUP	1.07
LOOD	2.57
DNA	0.499
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DNA	0.432
LOOD	1.41
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DNA	0.378
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DNA	0.902
LOOD	0.911
DNA	0.379
LOOD	0.91
DNA	0.277

LOAD	0.645
SUP	1.96
LOAD	0.823
DNA	0.462
QABR	0.719
LOAD	1.28
DNA	0.293
DNA	0.321
LOAD	1.05
LOAD	1.13
LOAD	1.18
DNA	0.348
QABR	0.516
QABR	0.739
LOAD	1.11
LOAD	2.56
DNA	0.668
NUCT	2.7
DNA	0.448
QABR	2.75
DNA	0.582
LOAD	2.38
LOAD	2.24
LOAD	2.26
LOAD	3.14
DNA	0.426
DNA	0.64
LOAD	2.88
LOAD	2.69
LOAD	2.78
DNA	0.414
LOAD	2.79
DNA	0.252
DNA	0.309
DNA	0.578
LOAD	1.84
LOAD	2.23
LOAD	2.25
LOAD	2.65
LOAD	1.57
LOAD	1.9
LOAD	1.79
DNA	0.606
DNA	0.711
DNA	0.546
LOAD	2.37
LOAD	2.22
LOAD	2.44
LOAD	3.05
DNA	0.428

LOAD	3.24
DNA	0.715
SUP	0.736
DNA	Undetermined
LOAD	2.41
LOAD	2.38
DNA	0.262
LOAD	1.68
DNA	0.339
LOAD	2.66
DNA	0.396
LOAD	2.68
LOAD	2.94
DNA	0.594
DNA	0.461
DNA	0.316
LOAD	1.02
LOAD	1.17
LOAD	1.24
DNA	0.634
LOAD	2.4
LOAD	2.67
LOAD	2.21
LOAD	2.97
DNA	0.645
DNA	1.05
LOAD	2.6
LOAD	2.81
LOAD	3.16
DNA	0.594
DNA	0.479
DNA	0.376
QAB	2.85
DNA	0.483
QAB	2.56
DNA	0.324
QAB	2.38
DNA	0.262
DNA	0.459
QAB	2.74
DNA	0.335
LOAD	2.33
LOAD	2.3
LOAD	2.57
LOAD	2.51
DNA	0.647
DNA	0.312
LOAD	2.27
LOAD	2.29
LOAD	2.78

DNA	0.468
DNA	0.464
DNA	0.356
DNA	0.684
LOOD	2.33
LOOD	2.6
LOOD	2.89
LOOD	2.22
LOOD	2.32
LOOD	2.45
DNA	0.337
DNA	0.351
DNA	0.414
LOOD	2.27
LOOD	3.05
DNA	0.307
DNA	0.286
LOOD	Not used
DNA	0.484
LOOD	1.87
LOOD	2.52
LOOD	2.53
LOOD	2.55
LOOD	2.01
LOOD	1.96
LOOD	1.87
DNA	0.349
LOOD	2.53
DNA	0.215
LOOD	2.5
QAB	2.76
LOOD	1.9
DNA	0.46
LOOD	1.57
QAB	1.26
LOOD	1.72
LOOD	2.55
DNA	0.314
SUP	0.932
LOOD	1.56

pec	FBQUAN
LYS	3.43
LYS	0.0479
LYS	3.15
LYS	0.0455
LYS	Not used
LYS	4.49
LYS	0.0263
ATCH	Not used
ATCH	Not used
LYS	3.58
LYS	0.0653
LYS	2.11
LYS	0.0529
LYS	1.11
LYS	0.0122
LYS	0.956
LYS	0.00553
FRAC	0.0827
FRAC	0.0281
LYS	0.0641
LYS	0.044
LYS	3.43
LYS	0.0454
LYS	1.74
LYS	0.0127
LYS	0.048
LYS	0.0759
LYS	0.0943
LYS	0.0527
LYS	0.0982
LYS	0.0521
LYS	0.0582
LYS	0.0482
LYS	0.0607
LYS	0.0592
LYS	0.0746
LYS	0.0254
LYS	0.0807
LYS	0.0727
LYS	0.0553
FRAC	0.059
FRAC	0.0562
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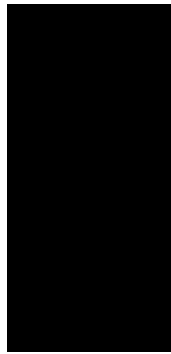
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ELYS	0.0692
SLYS	0.0484
EFRAC	0.0655
SFRAC	0.0862
EFRAC	0.0567
SFRAC	0.0615
EFRAC	0.0499
SFRAC	0.0284
DNA	Not used
BLOOD	Not used
DNA	Not used
EFRAC	0.0769
SFRAC	0.0605
SLYS	0.0992
ELYS	0.0658
ELYS	0.0704
SLYS	0.0737
ELYS	0.0769
SLYS	0.0464
ELYS	0.0653
SLYS	0.0329
ELYS	Not used
EFRAC	0.0676
SFRAC	0.079
EFRAC	0.0438
SFRAC	0.0642
EFRAC	0.654
SFRAC	0.0232
EFRAC	0.27
SFRAC	0.0108
ELYS	0.674
SLYS	0.0624
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SLYS	0.079

Barcode

Lysis batch

Lysis Pos Ctl barcode


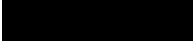
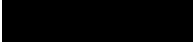
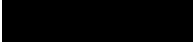
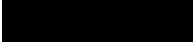
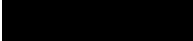
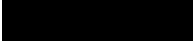
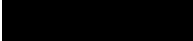
Lysis Pos Ctl quant



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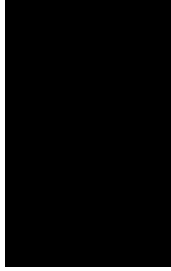
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Extraction batch	Extraction Pos Ctl barcode	Extraction Pos Ctl quant
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CDNAEXT20191002-01		2.182
CDNAEXT20191002-01		2.182
CDNAEXT20191002-01		2.182
CDNAEXT20210330-01		1.034
CDNAEXT20210330-01		1.034

Extraction Pos Ctl barcode	Extraction Pos Ctl quant	Extraction Pos Ctl barcode
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	1.387	



Extraction Pos Ctl quant

1.682

1.682

1.682

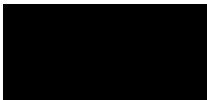
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1.682

1.682

Barcode IQ lysis batch (see extraction) Lysis Pos Ctl barcode Lysis Pos Ctl quant

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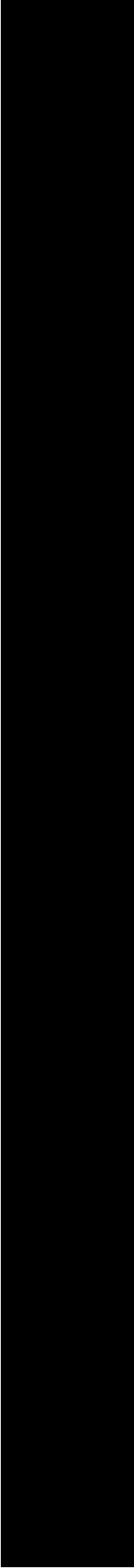
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CWIQLYS20130218_01	0.486
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CWIQLYS20130301_02	0.592
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CWIQLYS20130301_03	0.416

CWIQLYS20130416_01	1.09
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CWIQLYS20130416_01	1.09
CWIQLYS20130416_01	1.09
CWIQLYS20130418_01	0.814
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CWIQLYS20130423_01	1.82
CWIQLYS20130423_01	1.82
CWIQLYS20130423_01	1.82
CWIQLYS20130902_01	1.11
CWIQLYS20130826_02	0.713



CWIKLYS20130218_01



0.486

Extraction batch	Extraction Pos Ctl barcode	Extraction Pos Ctl quant
CWIQMAX20130211_02		2.83
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CWIQMAX20130416_01		1.93
CWIQMAX20130212_01		1.93
CWIQMAX20130211_02		2.83
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CWIQMAX20130211_02		2.83
CWIQMAX20130211_02		2.83
CWIQMAX20130211_02		2.83
CWIQMAX20130215_01		3
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CWIQMAX20130214_03		3.95
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CWIQMAX20130301_02		1.38
CWIQMAX20130225_02		3.11
CWIQMAX20130301_01		1.91
CWIQEXT20130305_01		0.416
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CWIQEXT20130220_01		0.486
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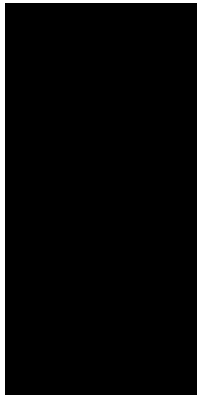
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CWIQMAX20130415_02		2.3
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CWIQMAX20140205_03		2.03
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CWIQMAX20170911_01		1.7902
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CWIQMAX20140512_06		1.46
CWIQMAX20140512_07		1.47
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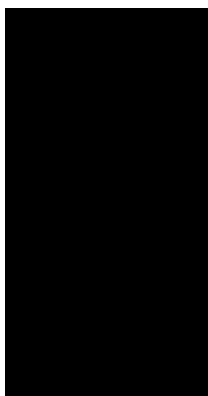
Extraction Pos Ctl barcode

Extraction Pos Ctl quant

Extraction Pos Ctl barcode



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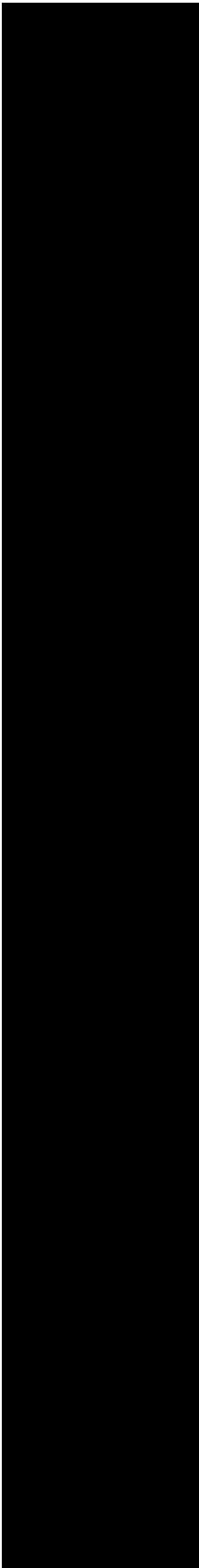
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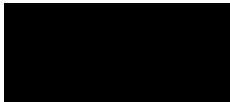


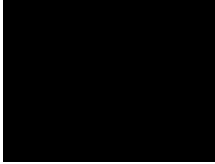
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0.441
0.441



1.09
1.09
1.09
1.09
0.814
0.924
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0.924
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0.924
0.924
0.924
1.11
0.713





0.642

Extraction Pos Ctl quant

Extraction Pos Ctl barcode

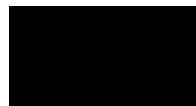
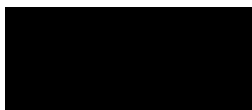
Extraction Pos Ctl quant



Extraction Pos Ctl barcode

Extraction Pos Ctl quant

Extraction Pos Ctl barcode



Extraction Pos Ctl quant

Extraction Pos Ctl barcode

Extraction Pos Ctl quant



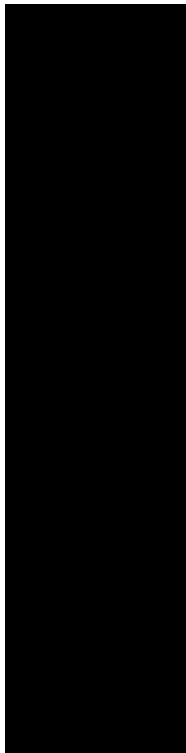
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	R21FTA20130301_01	N/A	N/A
	R21FTA20130809_01	N/A	N/A
	R21RPT20130312_01	N/A	N/A
	RFIQMAX20130503_01		2.44
	RETURNED TO QPS	N/A	N/A
	R21FTA20130522_01	N/A	N/A
	RFIQMAX20130604_01		2.06
	RFIQMAX20130503_01		2.44
	RFIQMAX20130531_01		1.45
	R21FTA20130301_01	N/A	N/A
	R21FTA20130419_01	N/A	N/A
	R21RUN20130411_01	N/A	N/A
	R21FTA20130308_01	N/A	N/A
	R21RPT20130312_01	N/A	N/A
	RFIQMAX20130319_02		0.0108
	RFIQMAX20130326_02		3.05
	R21FTA20130306_01	N/A	N/A
	R21FTA20130301_01	N/A	N/A
	R21RUN20130308_01	N/A	N/A
	R21FTA20130227_02	N/A	N/A
	RFIQMAX20130326_02		3.05
	R21OSD20130311_01	N/A	N/A
	RFIQMAX20130319_02		0.0108
	R21FTA20130301_01	N/A	N/A
	R21FTA20130301_01	N/A	N/A
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	RFIQMAX20130319_02		0.0108
	R21FTA2010227_02	N/A	N/A
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	R21RUN20130308_01	N/A	N/A
	R21RUN20130308_01	N/A	N/A
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	RFIQMAX20130326_02		3.05
	R21FTA20130227_02	N/A	N/A
	R21FTA20130227_01	N/A	N/A
	R21RPT20130312_01	N/A	N/A
	R21FTA20130301_01	N/A	N/A
	R21FTA20130301_01	N/A	N/A
	R21RUN20130308_01	N/A	N/A
	R21FTA20130227_01	N/A	N/A
	R21RUN20130308_01	N/A	N/A
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	R21RUN20130308_01	N/A	N/A
	R21FTA20130301_01	N/A	N/A

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R21FTA20131030_01	N/A	N/A	
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RFIQMAX20131108_01			2.17
R21FTA20130301_01	N/A	N/A	
R21RUN20130904_01	N/A	N/A	
R21FTA20131025_02	N/A	N/A	
RFIQMAX20131114_02			1.76
RDNAEXT20190923-03			1.104
R21RUN20140203_01	N/A	N/A	
Destroyed	N/A	N/A	
R21RUN20140506_01	N/A	N/A	
R21FTA20131106_01	N/A	N/A	
RFIQMAX20140708_02			1.36
RFIQMAX20131120_03			3.33
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R21FTA20140619_01	N/A	N/A	
R21FTA20140606_01	N/A	N/A	
R21RUN20140804_01	N/A	N/A	
R21FTA20140606_01	N/A	N/A	
RFIQMAX20160728_01			2.1002
R21FTA20130219_01	N/A	N/A	
R21FTA20130301_01	N/A	N/A	

Connected Barcode

Connected barcode Batch

Extraction Pos Ctl barcode

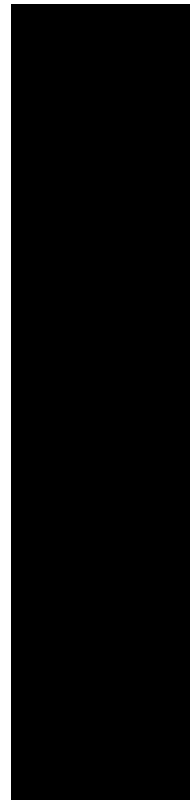


RFIQMAX20130403_01

RFIQMAX20130403_02

RFIQMAX20130403_02

RFIQMAX20130403_02



Extraction Pos Ctl quant

3.84

2.01

2.01

2.01