

Analyst:

Item #		Seal	Container	FA Description
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Notes

QC Info

Analyst:

Mackenzie J. DeHaven

Mackenzie J. Bellon

Analyst:		# samples + 2		non Hair/Bone MM	Hair MM	Bone MMs
Samples						
Item #	Extraction Type	Date	Time	Final Volume (µl)	EZ1	Notes:

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Item #	Extraction Type	Date	Time	Final Volume (μl)	EZ1	Notes:
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QIACube Setup Sheet

Date:

Analyst:

Enter sample names for NS/F1 fractions into the appropriate well location
Non Sperm Fraction (F1) shaker location

1		7
2		8
3		9
4		10
5		11
6		12

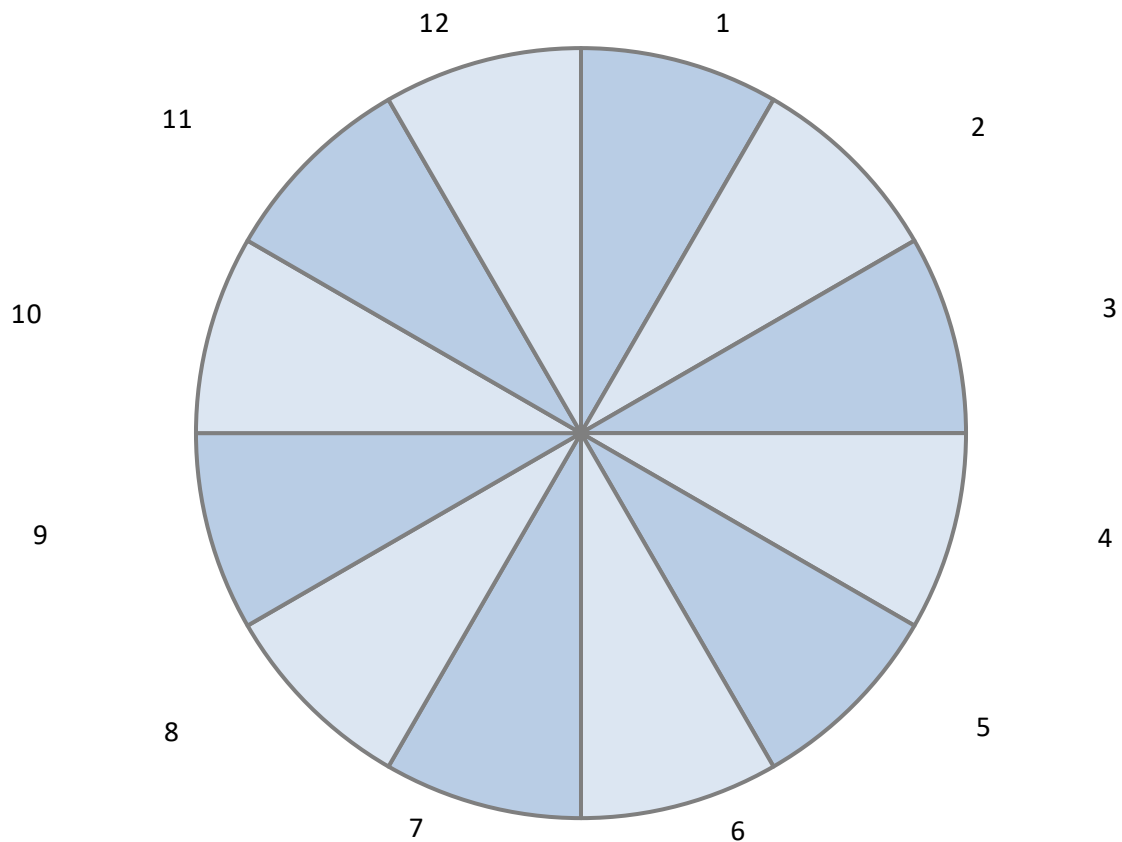
Instrument

Master Mix

SEB
DTT
ProK
cRNA

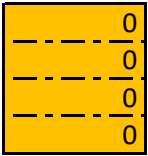
211 µl per SP sa

Sperm fraction/F2 bucket location



Setup tray

1	2	3	4	5	6
7	8	9	10	11	12



Sample

Quant Trio Setup Sheet

Analyst(s):		Quant Trio master mix			
			amount per rxn	total amount	Adjusted An
		sample	2.0	n/a	
		primer	8.0	96	
		reaction mix	10.0	120	
		total reaction volume	20.0	n/a	
		# of reactions	12		

Plate Setup

Enter your sample names in the appropriate well location

	1	2	3	4	5	6
A	STND 1	STND 5				
B	STND 1	STND 5				
C	STND 2	NTC				
D	STND 2	NTC				
E	STND 3					
F	STND 3					
G	STND 4					
H	STND 4					

	7	8	9	10	11	12
A						
B						
C						
D						
E						
F						
G						
H						

Notes:

QIAgility Deck Setup

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
A								
B								
C								
D								
A								
B								
C								
D								

Amount
n/a
122
152
n/a

5

2

* Block Type = 96alum
 * Chemistry = TAQMAN
 * Experiment File Name = C:\Applied Biosystems\7500\bin\Untitled
 * Experiment Run End Time = Not Started
 * Instrument Type = sds7500
 * Passive Reference = MP

[Sample Setup]

Well	Sample Name	Sample Color
A1	STND 1	RGB(255,102,0)
A1	STND 1	RGB(255,102,0)
A1	STND 1	RGB(255,102,0)
A1	STND 1	RGB(255,102,0)
A2	STND 5	RGB(255,102,0)
A2	STND 5	RGB(255,102,0)
A2	STND 5	RGB(255,102,0)
A2	STND 5	RGB(255,102,0)
A3		RGB(0,0,0)
A3		RGB(0,0,0)
A3		RGB(0,0,0)
A3		RGB(0,0,0)
A4		RGB(0,0,0)
A4		RGB(0,0,0)
A4		RGB(0,0,0)
A4		RGB(0,0,0)
A5		RGB(0,0,0)
A5		RGB(0,0,0)
A5		RGB(0,0,0)
A5		RGB(0,0,0)
A6		RGB(0,0,0)
A6		RGB(0,0,0)
A6		RGB(0,0,0)
A6		RGB(0,0,0)
A7		RGB(0,0,0)
A7		RGB(0,0,0)
A7		RGB(0,0,0)
A7		RGB(0,0,0)
A8		RGB(0,0,0)
A8		RGB(0,0,0)
A8		RGB(0,0,0)
A8		RGB(0,0,0)
A9		RGB(0,0,0)
A9		RGB(0,0,0)
A9		RGB(0,0,0)
A9		RGB(0,0,0)
A10		RGB(0,0,0)
A10		RGB(0,0,0)
A10		RGB(0,0,0)
A10		RGB(0,0,0)
A11		RGB(0,0,0)
A11		RGB(0,0,0)
A11		RGB(0,0,0)
A11		RGB(0,0,0)
A12		RGB(0,0,0)

A12		RGB(0,0,0)
A12		RGB(0,0,0)
A12		RGB(0,0,0)
B1	STND 1	RGB(255,102,0)
B1	STND 1	RGB(255,102,0)
B1	STND 1	RGB(255,102,0)
B1	STND 1	RGB(255,102,0)
B2	STND 5	RGB(255,102,0)
B2	STND 5	RGB(255,102,0)
B2	STND 5	RGB(255,102,0)
B2	STND 5	RGB(255,102,0)
B3		RGB(0,0,0)
B3		RGB(0,0,0)
B3		RGB(0,0,0)
B3		RGB(0,0,0)
B4		RGB(0,0,0)
B4		RGB(0,0,0)
B4		RGB(0,0,0)
B4		RGB(0,0,0)
B5		RGB(0,0,0)
B5		RGB(0,0,0)
B5		RGB(0,0,0)
B5		RGB(0,0,0)
B6		RGB(0,0,0)
B6		RGB(0,0,0)
B6		RGB(0,0,0)
B6		RGB(0,0,0)
B7		RGB(0,0,0)
B7		RGB(0,0,0)
B7		RGB(0,0,0)
B7		RGB(0,0,0)
B8		RGB(0,0,0)
B8		RGB(0,0,0)
B8		RGB(0,0,0)
B8		RGB(0,0,0)
B9		RGB(0,0,0)
B9		RGB(0,0,0)
B9		RGB(0,0,0)
B9		RGB(0,0,0)
B10		RGB(0,0,0)
B10		RGB(0,0,0)
B10		RGB(0,0,0)
B10		RGB(0,0,0)
B11		RGB(0,0,0)
B11		RGB(0,0,0)
B11		RGB(0,0,0)
B11		RGB(0,0,0)
B12		RGB(0,0,0)
B12		RGB(0,0,0)
B12		RGB(0,0,0)
B12		RGB(0,0,0)
C1	STND 2	RGB(255,102,0)
C1	STND 2	RGB(255,102,0)

C1	STND 2	RGB(255,102,0)
C1	STND 2	RGB(255,102,0)
C2	NTC	RGB(128,0,128)
C2	NTC	RGB(128,0,128)
C2	NTC	RGB(128,0,128)
C2	NTC	RGB(128,0,128)
C3		RGB(0,0,0)
C3		RGB(0,0,0)
C3		RGB(0,0,0)
C3		RGB(0,0,0)
C4		RGB(0,0,0)
C4		RGB(0,0,0)
C4		RGB(0,0,0)
C4		RGB(0,0,0)
C5		RGB(0,0,0)
C5		RGB(0,0,0)
C5		RGB(0,0,0)
C5		RGB(0,0,0)
C6		RGB(0,0,0)
C6		RGB(0,0,0)
C6		RGB(0,0,0)
C6		RGB(0,0,0)
C7		RGB(0,0,0)
C7		RGB(0,0,0)
C7		RGB(0,0,0)
C7		RGB(0,0,0)
C8		RGB(0,0,0)
C8		RGB(0,0,0)
C8		RGB(0,0,0)
C8		RGB(0,0,0)
C9		RGB(0,0,0)
C9		RGB(0,0,0)
C9		RGB(0,0,0)
C9		RGB(0,0,0)
C10		RGB(0,0,0)
C10		RGB(0,0,0)
C10		RGB(0,0,0)
C10		RGB(0,0,0)
C11		RGB(0,0,0)
C11		RGB(0,0,0)
C11		RGB(0,0,0)
C11		RGB(0,0,0)
C12		RGB(0,0,0)
C12		RGB(0,0,0)
C12		RGB(0,0,0)
C12		RGB(0,0,0)
D1	STND 2	RGB(255,102,0)
D1	STND 2	RGB(255,102,0)
D1	STND 2	RGB(255,102,0)
D1	STND 2	RGB(255,102,0)
D2	NTC	RGB(128,0,128)
D2	NTC	RGB(128,0,128)
D2	NTC	RGB(128,0,128)

D2	NTC	RGB(128,0,128)
D3		RGB(0,0,0)
D3		RGB(0,0,0)
D3		RGB(0,0,0)
D3		RGB(0,0,0)
D4		RGB(0,0,0)
D4		RGB(0,0,0)
D4		RGB(0,0,0)
D4		RGB(0,0,0)
D5		RGB(0,0,0)
D5		RGB(0,0,0)
D5		RGB(0,0,0)
D5		RGB(0,0,0)
D6		RGB(0,0,0)
D6		RGB(0,0,0)
D6		RGB(0,0,0)
D6		RGB(0,0,0)
D7		RGB(0,0,0)
D7		RGB(0,0,0)
D7		RGB(0,0,0)
D7		RGB(0,0,0)
D8		RGB(0,0,0)
D8		RGB(0,0,0)
D8		RGB(0,0,0)
D8		RGB(0,0,0)
D9		RGB(0,0,0)
D9		RGB(0,0,0)
D9		RGB(0,0,0)
D9		RGB(0,0,0)
D10		RGB(0,0,0)
D10		RGB(0,0,0)
D10		RGB(0,0,0)
D10		RGB(0,0,0)
D11		RGB(0,0,0)
D11		RGB(0,0,0)
D11		RGB(0,0,0)
D11		RGB(0,0,0)
D12		RGB(0,0,0)
D12		RGB(0,0,0)
D12		RGB(0,0,0)
D12		RGB(0,0,0)
E1	STND 3	RGB(255,102,0)
E1	STND 3	RGB(255,102,0)
E1	STND 3	RGB(255,102,0)
E1	STND 3	RGB(255,102,0)
E2		RGB(0,0,0)
E2		RGB(0,0,0)
E2		RGB(0,0,0)
E2		RGB(0,0,0)
E3		RGB(0,0,0)
E3		RGB(0,0,0)
E3		RGB(0,0,0)
E3		RGB(0,0,0)

E4		RGB(0,0,0)
E4		RGB(0,0,0)
E4		RGB(0,0,0)
E4		RGB(0,0,0)
E5		RGB(0,0,0)
E5		RGB(0,0,0)
E5		RGB(0,0,0)
E5		RGB(0,0,0)
E6		RGB(0,0,0)
E6		RGB(0,0,0)
E6		RGB(0,0,0)
E6		RGB(0,0,0)
E7		RGB(0,0,0)
E7		RGB(0,0,0)
E7		RGB(0,0,0)
E7		RGB(0,0,0)
E8		RGB(0,0,0)
E8		RGB(0,0,0)
E8		RGB(0,0,0)
E8		RGB(0,0,0)
E9		RGB(0,0,0)
E9		RGB(0,0,0)
E9		RGB(0,0,0)
E9		RGB(0,0,0)
E10		RGB(0,0,0)
E10		RGB(0,0,0)
E10		RGB(0,0,0)
E10		RGB(0,0,0)
E11		RGB(0,0,0)
E11		RGB(0,0,0)
E11		RGB(0,0,0)
E11		RGB(0,0,0)
E12		RGB(0,0,0)
E12		RGB(0,0,0)
E12		RGB(0,0,0)
E12		RGB(0,0,0)
F1	STND 3	RGB(255,102,0)
F1	STND 3	RGB(255,102,0)
F1	STND 3	RGB(255,102,0)
F1	STND 3	RGB(255,102,0)
F2		RGB(0,0,0)
F2		RGB(0,0,0)
F2		RGB(0,0,0)
F2		RGB(0,0,0)
F3		RGB(0,0,0)
F3		RGB(0,0,0)
F3		RGB(0,0,0)
F3		RGB(0,0,0)
F4		RGB(0,0,0)
F4		RGB(0,0,0)
F4		RGB(0,0,0)
F4		RGB(0,0,0)
F5		RGB(0,0,0)

F5		RGB(0,0,0)
F5		RGB(0,0,0)
F5		RGB(0,0,0)
F6		RGB(0,0,0)
F6		RGB(0,0,0)
F6		RGB(0,0,0)
F6		RGB(0,0,0)
F7		RGB(0,0,0)
F7		RGB(0,0,0)
F7		RGB(0,0,0)
F7		RGB(0,0,0)
F8		RGB(0,0,0)
F8		RGB(0,0,0)
F8		RGB(0,0,0)
F8		RGB(0,0,0)
F9		RGB(0,0,0)
F9		RGB(0,0,0)
F9		RGB(0,0,0)
F9		RGB(0,0,0)
F10		RGB(0,0,0)
F10		RGB(0,0,0)
F10		RGB(0,0,0)
F10		RGB(0,0,0)
F11		RGB(0,0,0)
F11		RGB(0,0,0)
F11		RGB(0,0,0)
F11		RGB(0,0,0)
F12		RGB(0,0,0)
F12		RGB(0,0,0)
F12		RGB(0,0,0)
F12		RGB(0,0,0)
G1	STND 4	RGB(255,102,0)
G1	STND 4	RGB(255,102,0)
G1	STND 4	RGB(255,102,0)
G1	STND 4	RGB(255,102,0)
G2		RGB(0,0,0)
G2		RGB(0,0,0)
G2		RGB(0,0,0)
G2		RGB(0,0,0)
G3		RGB(0,0,0)
G3		RGB(0,0,0)
G3		RGB(0,0,0)
G3		RGB(0,0,0)
G4		RGB(0,0,0)
G4		RGB(0,0,0)
G4		RGB(0,0,0)
G4		RGB(0,0,0)
G5		RGB(0,0,0)
G5		RGB(0,0,0)
G5		RGB(0,0,0)
G5		RGB(0,0,0)
G6		RGB(0,0,0)
G6		RGB(0,0,0)

G6		RGB(0,0,0)
G6		RGB(0,0,0)
G7		RGB(0,0,0)
G7		RGB(0,0,0)
G7		RGB(0,0,0)
G7		RGB(0,0,0)
G8		RGB(0,0,0)
G8		RGB(0,0,0)
G8		RGB(0,0,0)
G8		RGB(0,0,0)
G9		RGB(0,0,0)
G9		RGB(0,0,0)
G9		RGB(0,0,0)
G9		RGB(0,0,0)
G10		RGB(0,0,0)
G10		RGB(0,0,0)
G10		RGB(0,0,0)
G10		RGB(0,0,0)
G11		RGB(0,0,0)
G11		RGB(0,0,0)
G11		RGB(0,0,0)
G11		RGB(0,0,0)
G12		RGB(0,0,0)
G12		RGB(0,0,0)
G12		RGB(0,0,0)
G12		RGB(0,0,0)
H1	STND 4	RGB(255,102,0)
H1	STND 4	RGB(255,102,0)
H1	STND 4	RGB(255,102,0)
H1	STND 4	RGB(255,102,0)
H2		RGB(0,0,0)
H2		RGB(0,0,0)
H2		RGB(0,0,0)
H2		RGB(0,0,0)
H3		RGB(0,0,0)
H3		RGB(0,0,0)
H3		RGB(0,0,0)
H3		RGB(0,0,0)
H4		RGB(0,0,0)
H4		RGB(0,0,0)
H4		RGB(0,0,0)
H4		RGB(0,0,0)
H5		RGB(0,0,0)
H5		RGB(0,0,0)
H5		RGB(0,0,0)
H5		RGB(0,0,0)
H6		RGB(0,0,0)
H6		RGB(0,0,0)
H6		RGB(0,0,0)
H6		RGB(0,0,0)
H7		RGB(0,0,0)
H7		RGB(0,0,0)
H7		RGB(0,0,0)

H7	RGB(0,0,0)
H8	RGB(0,0,0)
H8	RGB(0,0,0)
H8	RGB(0,0,0)
H8	RGB(0,0,0)
H9	RGB(0,0,0)
H9	RGB(0,0,0)
H9	RGB(0,0,0)
H9	RGB(0,0,0)
H10	RGB(0,0,0)
H10	RGB(0,0,0)
H10	RGB(0,0,0)
H10	RGB(0,0,0)
H11	RGB(0,0,0)
H11	RGB(0,0,0)
H11	RGB(0,0,0)
H11	RGB(0,0,0)
H12	RGB(0,0,0)
H12	RGB(0,0,0)
H12	RGB(0,0,0)
H12	RGB(0,0,0)

Target Name	Task	Reporter	Quencher	Quantity	Comments
T.IPC	UNKNOWN	JUN	QSY7	50	
T.Large Autosomal	STANDARD	ABY	QSY7	50	
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	50	
T.Y	STANDARD	FAM	NFQ-MGB	50	
T.IPC	UNKNOWN	JUN	QSY7	0.005	
T.Large Autosomal	STANDARD	ABY	QSY7	0.005	
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	0.005	
T.Y	STANDARD	FAM	NFQ-MGB	0.005	

T.IPC	UNKNOWN	JUN	QSY7	50
T.Large Autosomal	STANDARD	ABY	QSY7	50
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	50
T.Y	STANDARD	FAM	NFQ-MGB	50
T.IPC	UNKNOWN	JUN	QSY7	0.005
T.Large Autosomal	STANDARD	ABY	QSY7	0.005
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	0.005
T.Y	STANDARD	FAM	NFQ-MGB	0.005

T.IPC	UNKNOWN	JUN	QSY7	5
T.Large Autosomal	STANDARD	ABY	QSY7	5

T.Small Autosomal	STANDARD	VIC	NFQ-MGB	5
T.Y	STANDARD	FAM	NFQ-MGB	5
T.IPC	UNKNOWN	JUN	QSY7	
T.Large Autosomal	NTC	ABY	QSY7	
T.Small Autosomal	NTC	VIC	NFQ-MGB	
T.Y	NTC	FAM	NFQ-MGB	

T.IPC	UNKNOWN	JUN	QSY7	5
T.Large Autosomal	STANDARD	ABY	QSY7	5
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	5
T.Y	STANDARD	FAM	NFQ-MGB	5
T.IPC	UNKNOWN	JUN	QSY7	
T.Large Autosomal	NTC	ABY	QSY7	
T.Small Autosomal	NTC	VIC	NFQ-MGB	

T.Y	NTC	FAM	NFQ-MGB
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T.IPC	UNKNOWN	JUN	QSY7	0.5
T.Large Autosomal	STANDARD	ABY	QSY7	0.5
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	0.5
T.Y	STANDARD	FAM	NFQ-MGB	0.5

T.IPC	UNKNOWN	JUN	QSY7	0.5
T.Large Autosomal	STANDARD	ABY	QSY7	0.5
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	0.5
T.Y	STANDARD	FAM	NFQ-MGB	0.5

T.IPC	UNKNOWN	JUN	QSY7	0.05
T.Large Autosomal	STANDARD	ABY	QSY7	0.05
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	0.05
T.Y	STANDARD	FAM	NFQ-MGB	0.05

T.IPC	UNKNOWN	JUN	QSY7	0.05
T.Large Autosomal	STANDARD	ABY	QSY7	0.05
T.Small Autosomal	STANDARD	VIC	NFQ-MGB	0.05
T.Y	STANDARD	FAM	NFQ-MGB	0.05

Samples that need to be manually diluted (Quantities greater than 75.0ng/ul) to 1 ng/ul **HUMAN**

Instructions				
5	<<<<Amount of stock sample (µl) to use in your dilution of the sample			
Sample	Quantity	Amount of Diluent	M:F Ratio	Degradation Index

Samples that need to be manually diluted (Quantities greater than 25.0ng/μl) to 0.5ng/μl **MALE**

Instructions				
5		<<<Amount of stock sample (µl) to use in your dilution of the sample		
Sample	Quantity	Amount of Diluent	M:F Ratio	Degradation Index

Manual dilution not needed (Human Quantities less than or equal to 75.0ng/ul, Male Quantities less than or equal to 25.0ng/ul)

Enter your sample names >>>

[illegible]

[illegible]

Quant cutoff = $<.005$ for
Male

Fusion QIAgility Amplification Setup Worksheet

Analyst(s):		Fusion 6C master mix	
		amount per rxn	total amount
		Master Mix	5
		Primer Set	5
		Number of reactions	2

Plate Setup

Enter your sample names into the appropriate well location (add 2800M and NegAmp to the two wells immediately following your last sample)

	1	2	3	4	5	6
A						
B						
C						
D	2800M					
E	NegAmp					
F						
G						
H						

Thermal Cycler:

	7	8	9	10	11	12
A						
B						
C						
D						
E						
F						
G						
H						

Notes:

Sample Setup

Place your samples into the corresponding location on the instrument deck

	1	2	3	4	5	6	7	8
A								
B								
C								
D								
A								
B								
C								
D								
A								
B								
C								
D								

unt
25
25

5

2

[illegible]

[illegible]

24 cap

A1
B1
C1
D1
E1
F1
G1
H1
A2
B2
C2
D2
E2
F2
G2
H2
A3
B3
C3
D3
E3
F3
G3
H3
A4
B4
C4
D4
E4
F4
G4
H4
A5
B5
C5
D5
E5
F5
G5
H5
A6
B6
C6
D6
E6
F6
G6

2800M
NegAmp

POS
NEG

H6
A7
B7
C7
D7
E7
F7
G7
H7
A8
B8
C8
D8
E8
F8
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A9
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C9
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F9
G9
H9
A10
B10
C10
D10
E10
F10
G10
H10
A11
B11
C11
D11
E11
F11
G11
H11
A12
B12
C12
D12
E12
F12
G12

660 Manual Amplification Setup Worksheet



Analyst:

Date:

10 µl of master mix

Well	Sample	DNA Amount (µl)	Diluent Amount (µl)
A1			
B1	2800M	5.0	10.0
C1	NegAmp	0.0	15.0
D1			
E1			
F1			
G1			
H1			
A2			
B2			
C2			
D2			
E2			
F2			
G2			
H2			
A3			
B3			
C3			
D3			
E3			
F3			
G3			
H3			
A4			
B4			
C4			
D4			
E4			
F4			
G4			
H4			
A5			
B5			
C5			
D5			
E5			
F5			
G5			
H5			
A6			
B6			
C6			
D6			
E6			
F6			
G6			
H6			

Thermal Cy

PCR Maste
20

PCR Primer
20

of reactio
2

Highlighted cell = diluted to
1ng/ul prior to amp

Form Approved for Use by: DNA Technical Leader

Madison J. DeHaven

per well

roller:

mix

set

ins

6C 3500xl Setup

Analyst(s):		Plate Name:									
	1	2	3	4	5	6	7	8	9	10	11
A	Ladder										
B	2800M										
C	NegAmp										
D											
E											
F											
G											
H											

Notes:

12

3500 Plate Layout File Version 1.0

Plate Name	Application Type	Capillary Length (cm)	Polymer
	HID	36	POP4
Well	Sample Name	Assay	File Name Convention
A01	Ladder	Fusion 6C	PowerPlex 6C
B01	2800M	Fusion 6C	PowerPlex 6C
C01	NegAmp	Fusion 6C	PowerPlex 6C

Number of Wells	Owner Name	Barcode Number	Comments
96			

Results Group	Sample Type	User Defined Field 1	User Defined Field 2	User Defined Field 3
PowerPlex 6C	Allelic Ladder		1	
PowerPlex 6C	Positive Control		2	
PowerPlex 6C	Negative Control		3	

User Defined Field 4 Comments

PowerPlex®Fusion 6C Expected Results				
Locus	2800M		JHW	
AMEL	X	Y	X	Y
D3S1358	17	18	16	18
D1S1656	12	13	17	17.3
D2S441	10	14	11	14
D10S1248	13	15	12	14
D13S317	9	11	11	-
Penta E	7	14	12	-
D16S539	9	13	11	-
D18S51	16	18	13	16
D2S1338	22	25	17	-
CSF1PO	12	-	11	12
Penta D	12	13	9	11
TH01	6	9.3	6	9.3
vWA	16	19	17	18
D21S11	29	31.2	28	30
D7S820	8	11	8	10
D5S818	12	-	12	13
TPOX	11	-	8	9
D8S1179	14	15	9	14
D12S391	18	23	18.3	20
D19S433	13	14	14	-
SE33	15	16	18	27.2
D22S1045	16	-	15	16
DYS391	10	-	11	-
FGA	20	23	24	25
DYS576	18	-	17	-
DYS570	17	-	21	-

PowerPlex®Fusion Y23 Expected Results			
Locus	2800M		JH
DYS576	18	-	17
DYS389 I	14	-	13
DYS448	19	-	20
DYS389 II	31	-	29
DYS19	14	-	16
DYS391	10	-	11
DYS481	22	-	25
DYS549	13	-	12
DYS533	12	-	14
DYS438	9	-	10
DYS437	14	-	15
DYS570	17	-	21
DYS635	21	-	21
DYS390	24	-	23
DYS439	12	-	11
DYS392	13	-	12
DYS643	10	-	13
DYS393	13	-	14
DYS458	17	-	15
DYS385	13	16	15
DYS456	17	-	17
YGATAH4	11	-	11

Frequency Database References:

Hill, C.R., Duewer, D.L., Kline, M.C., Coble, M.D., Butler, J.M. (2013) U.S. population data for 29 autosomal STR loci. Forensic Sci. Int. Genet. 7: e82-e83

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