

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
SAMPLES EXTRACTED

FS LAB#: _____

Well #	ITEM NUMBER / DESCRIPTION	Touch/Wear?	Sample Volume	Buffer*	Extraction Method**	Analyst
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						
H6						

Well #	ITEM NUMBER / DESCRIPTION	Touch/Wear?	Sample Volume	Buffer*	Extraction Method**	Analyst
A7						
B7						
C7						
D7						
E7						
F7						
G7						
H7						
A8						
B8						
C8						
D8						
E8						
F8						
G8						
H8						
A9						
B9						
C9						
D9						
E9						
F9						
G9						
H9						
A10						
B10						
C10						
D10						
E10						
F10						
G10						
H10						

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COMMENTS:

* AQ = Aqueous LYS = Lysis

** IQ = DNA IQ OM = ORGANIC MICROCON

IQD = DNA IQ DIFFERENTIAL ODM = ORGANIC DIFFERENTIAL MICROCON

IQP = DNA IQ PRO K OMB = ORGANIC MICROCON BONE

IQTI = DNA IQ TISSUE IQM = DNA IQ MANUAL

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
SAMPLE SET UP FOR BIOMEK® EXTRACTION/QUANTITATION/NORMALIZATION

FS LAB#: _____

Wells Loaded:	By:

Biomek Extraction	Date:	Operator:
Quantitation	Date:	Operator:
Norm. Wizard / Amp.	Date:	Operator:

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12

COMMENTS: _____ CROSS CHECK: _____

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (25) RESULTS

ANALYST: _____

FS LAB#: _____

DATE: _____

Product gel well	SAMPLE	Visible Product?	TYPE VOL. (µL)	Product gel well	SAMPLE	Visible Product?	TYPE VOL. (µL)
				36			
1	123 bp ladder			37			
2				38			
3				39			
4				40			
5				41			
6				42			
7				43			
8				44			
9				45			
10				46			
11				47			
12				48			
13				49			
14				50			
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26	123 bp ladder						
27							
28							
29							
30							
31							
32							
33							
34							
35							
Note: * no iso/no amp				<p style="text-align: center;">PRODUCT GEL PHOTO</p> <p style="text-align: center; font-size: 2em; opacity: 0.5;">UNCONTROLLED COPY</p>			
REAGENT							
PRODUCT GEL							
AGAROSE							
0.5X TBE GEL BUFFER							
ETHIDIUM BROMIDE							
LOADING BUFFER							
0.5X TBE TANK BUFFER							
123bp LADDER							

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (25) RESULTS

ANALYST: _____

FS LAB#: _____

DATE: _____

Product gel 2 well	SAMPLE	Visible Product?	TYPE VOL. (µL)	Product gel 2 well	SAMPLE	Visible Product?	TYPE VOL. (µL)
				36			
1	123 bp ladder			37			
2				38			
3				39			
4				40			
5				41			
6				42			
7				43			
8				44			
9				45			
10				46			
11				47			
12				48			
13				49			
14				50			
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26	123 bp ladder						
27							
28							
29							
30							
31							
32							
33							
34							
35							

PRODUCT GEL PHOTO

UNCONTROLLED COPY

Note: * no iso/no amp	
REAGENT	
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123bp LADDER	

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (16) RESULTS

ANALYST: _____

DATE: _____

FS LAB#: _____

PRODUCT GEL 1 WELL	SAMPLE	VISIBLE PRODUCT?	TYPE VOL (µL)
1	123 bp LADDER		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

REAGENT	LOT# / SOURCE
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	

REAGENT	LOT# / SOURCE
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123 bp LADDER	Invitrogen

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (16) RESULTS

ANALYST: _____

FS LAB#: _____

DATE: _____

PRODUCT GEL 2 WELL	SAMPLE	VISIBLE PRODUCT?	TYPE VOL (μL)
1	123 bp LADDER		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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25			
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28			
29			
30			
31			
32			

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PRODUCT GEL PHOTO

UNCONTROLLED

REAGENT	LOT# / SOURCE
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	

REAGENT	LOT# / SOURCE
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123 bp LADDER	Invitrogen

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (16) RESULTS

ANALYST: _____

FS LAB#: _____

DATE: _____

PRODUCT GEL 3 WELL	SAMPLE	VISIBLE PRODUCT?	TYPE VOL (µL)
1	123 bp LADDER		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

REAGENT	LOT# / SOURCE
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	

REAGENT	LOT# / SOURCE
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123 bp LADDER	Invitrogen

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (20) RESULTS

ANALYST: _____

DATE: _____

FS LAB#: _____

Product gel well	SAMPLE	Visible Product?	TYPE VOL. (µL)	Product gel well	SAMPLE	Visible Product?	TYPE VOL. (µL)
				36			
1	123 bp ladder			37			
2				38			
3				39			
4				40			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21	123 bp ladder						
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

PRODUCT GEL PHOTO

UNCONTROLLED COPY

Note: * no iso/no amp	
REAGENT	LOT# / SOURCE
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123bp LADDER	


VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (20) RESULTS

ANALYST: _____ FS LAB#: _____

DATE: _____

Product gel 2 well	SAMPLE	Visible Product?	TYPE VOL. (µL)	Product gel 2 well	SAMPLE	Visible Product?	TYPE VOL. (µL)
				36			
1	123 bp ladder			37			
2				38			
3				39			
4				40			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21	123 bp ladder						
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

PRODUCT GEL PHOTO



Note: * no iso/no amp	
REAGENT	LOT# / SOURCE
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123bp LADDER	

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PRODUCT GEL (20) RESULTS

ANALYST: _____
 DATE: _____

FS LAB#: _____

Product gel 3 well	SAMPLE	Visible Product?	TYPE VOL. (µL)	Product gel 3 well	SAMPLE	Visible Product?	TYPE VOL. (µL)
				36			
1	123 bp ladder			37			
2				38			
3				39			
4				40			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21	123 bp ladder						
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

PRODUCT GEL PHOTO

Note: * no iso/no amp	
REAGENT	LOT# / SOURCE
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123bp LADDER	

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
REAGENT WORKSHEET

FS LAB#:

IQ - DNA IQ		DATE:		
REAGENT	VOL (µL)	LOT# / SOURCE		
LYSIS BUFFER	200 - 800	/Promega		
0.39M DTT	2.5µL/100µL lysis buffer			
IQP - DNA IQ ProK		DATE:		
REAGENT	VOL (µL)	LOT# / SOURCE		
DNA IQ PROTEINASE K BUFFER	160			
0.39M DTT	20			
PROTEINASE K	20			
IQD - DNA IQ DIFFERENTIAL		DATE:		
REAGENT	VOL (µL)	LOT# / SOURCE		
TNE	400			
STERILE TYPE I WATER	75			
20% SARKOSYL	25			
PROTEINASE K	5			
DIGEST BUFFER WASHES	500 each			
IQT1 - DNA IQ TISSUE		DATE:		
REAGENT	VOL (µL)	LOT# / SOURCE		
CaCl ₂ BUFFER 1X	90			
PROTEINASE K	10			
BIOMEK DNA IQ		DATE:		
REAGENT		LOT# / SOURCE		
DNA IQ LYSIS BUFFER		/Promega		
0.39M DTT				
DNA IQ RESIN		/Promega		
DNA IQ WASH BUFFER				
DNA IQ ELUTION BUFFER		/Promega		
PLEXOR HY QUANTITATION		DATE:		
PLEXOR HY KIT # / SOURCE	/Promega	EXPIRATION DATE:		
	Reagent Vol. (µL) / Reaction	Component Vol. (µL)		
PLEXOR 2X MASTER MIX	10	270		
STERILE TYPE I H ₂ O	7	189		
20X PRIMER/IPC MIX	1	27		
# OF REACTIONS (automatically calculated):	27	Total Vol. Master Mix (µL):	486	
AMPLIFICATION		DATE:		
POWERPLEX 16 KIT# / SOURCE:	/Promega	EXPIRATION DATE:		
	Reagent Vol. (µL) / Reaction	# of Samples (Manual)	Total Volume (Manual)	LOT# / SOURCE:
AmpliTaq GOLD	0.40	1	0.4 µL	/AB
10X GOLD ST*R BUFFER	1.25	1	1.25 µL	
PRIMER PAIRS	1.25	1	1.25 µL	
STERILE TYPE I WATER	4.6	1	4.6 µL	
THERMAL CYCLER / QC DATE:				
AMPLIFICATION CONTROLS:	POSITIVE CONTROL LOT# or CONCENTRATION:			
POSTIVE(S) - # / NAME(S)				
NEGATIVE(S) - # / NAME(S)				

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
MANUAL REAGENT WORKSHEET

FS LAB#:

OM - ORGANIC MICROCON		
REAGENT	VOL (µL)	LOT# / SOURCE
STAIN EXTRACTION BUFFER	400	
PROTEINASE K	10	
PHENOL/CHLOROFORM/IAA	500	
MICROCON 50		
MICROCON 100		
STERILE TYPE I WATER	100 / 200	
TE-4 BUFFER	30	
ODM - ORGANIC DIFFERENTIAL MICROCON		
REAGENT	VOL (µL)	LOT# / SOURCE
TNE	400 / 150	
STERILE TYPE I WATER	75 / 150	
20% SARKOSYL	25 / 50	
PROTEINASE K	5 / 10	
DIGEST BUFFER WASHES	500 each	
0.39M DTT	40	
PHENOL/CHLOROFORM/IAA	500	
MICROCON 50		
MICROCON 100		
STERILE TYPE I WATER	100 / 200	
TE-4 BUFFER	30	
IQM - MANUAL DNA IQ		
REAGENT	VOL (µL)	LOT# / SOURCE
DNA IQ LYSIS BUFFER	250-325 / 100-220 / 100	/Promega
0.39M DTT	2.5µL/100µL lysis buffer	
DNA IQ RESIN	8	/Promega
DNA IQ WASH BUFFER	100 each	
DNA IQ ELUTION BUFFER	40	/Promega
OMB - ORGANIC MICROCON BONE		
REAGENT	VOL (µL)	LOT# / SOURCE
STAIN EXTRACTION BUFFER	1 mL - variable	
PROTEINASE K	35 - variable	
PHENOL/CHLOROFORM/IAA	500	
MICROCON 50		
MICROCON 100		
STERILE TYPE I WATER	100 / 200	
TE-4 BUFFER	30	

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
PLATE MAP FOR 3130xl

Plate Name: _____

Injection time (s)
2
5
10
noted in well/comments

Load volume (µL)
0.5
1
2
noted in well/comments

FS Lab#: _____

Instrument ID: _____

Analyst/Wells Loaded: _____

Plate Loading Date: _____

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	1	2	3	4	5	6	7	8	9	10	11	12
A												
B												
C												
D												
E												
F												
G												
H												

Reagent	1x (µL)	3130xl Setup # of samples	Master Mix (µL)	Lot #	Source	Expiration
Hi-Di Formamide	9.5				ABI	
ILS 600:	0.5				Promega	
Allelic Ladder:					Promega	
Running Buffer (1X): 3.5mL 10x running buffer + 31.5 mL Type 1 H2O		Date changed on instrument:			ABI	
POP-4:		Date loaded onto instrument:			ABI	

CONTROLS		
	Examiner	Tech Review
Allelic Ladder		
Pos Control		
Neg Control		
Reagent Blank(s)		
Comments:		

COMMENTS: _____

Sample Names

Sample names should be listed in the order they appear in the DNA source plate.

	1	2	3	4	5	6	7	8	9	10
A	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0
H	0	0	0	0	0	0	0	0	0	0

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