VIRGINIA DEPARTMENT OF FORENSIC SCIENCE

SAMPLES EXTRACTED

FS LAB#: _____

Well #	ITEM NUMBER / DESCRIPTION	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	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: _____

_____

* OM = ORGANIC MICROCON

ODM = ORGANIC DIFFERENTIAL MICROCON

IQ = DNA IQ IQTI = DNA IQ Tissue

IQD = DNA IQ DIFFERENTIAL IQB = DNA IQ Bone

IQP = DNA IQ PRO K IQTE = DNA IQ Teeth

SAMPLE SET UP FOR BIOMEK® 2000 ROBOT/ALUQUANT HUMAN QUANTITATION SYSTEM/NORMALIZATION WIZARD

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: _____

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Release 3.0

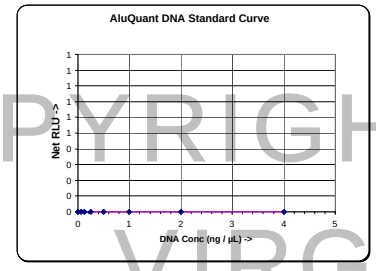
AluQuant®
Human DNA Quantitation

ng / PCR Reaction	0	*
Max Template (uL)	0	*
Elution Vol (uL)	0	**

FS Lab#: _____

Standard Curve

DNA Concentration (ng / uL)	+ Probe	- Probe	Net RLU
0			
0.063			
0.125			
0.25			
0.5			
1			
2			
4			



Unknowns

Well #	Sample Name	+ Probe	- Probe	Net RLU	DNA Concentration (ng / uL)	uL / PCR*	Total Yield (ng)**
A1	0						
B1	0						
C1	0						
D1	0						
E1	0						
F1	0						
G1	0						
H1	0						
A2	0						
B2	0						
C2	0						
D2	0						
E2	0						
F2	0						
G2	0						
H2	0						
A3	0						
B3	0						
C3	0						
D3	0						
E3	0						
F3	0						
G3	0						
H3	0						
A4	0						
B4	0						
C4	0						
D4	0						
E4	0						
F4	0						
G4	0						
H4	0						
A5	0						
B5	0						
C5	0						
D5	0						
E5	0						
F5	0						
G5	0						
H5	0						
A6	0						
B6	0						
C6	0						
D6	0						
E6	0						
F6	0						
G6	0						
H6	0						
A7	0						
B7	0						
C7	0						
D7	0						
E7	0						
F7	0						
G7	0						
H7	0						
A8	0						
B8	0						
C8	0						
D8	0						
E8	0						
F8	0						
G8	0						
H8	0						
A9	0						
B9	0						
C9	0						
D9	0						
E9	0						
F9	0						
G9	0						
H9	0						
A10	0						
B10	0						
C10	0						
D10	0						
E10	0						
F10	0						
G10	0						
H10	0						
A11	0						
B11	0						
C11	0						
D11	0						
E11	0						
F11	0						
G11	0						
H11	0						

Not For Medical Diagnostic Use

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PRODUCT GEL 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	1			38			
3	2			39			
4	3			40			
5	4			41			
6	5			42			
7	6			43			
8	7			44			
9	8			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

REAGENT	
PRODUCT GEL	
AGAROSE	
0.5X TBE GEL BUFFER	
ETHIDIUM BROMIDE	
LOADING BUFFER	
0.5X TBE TANK BUFFER	
123bp LADDER	

PRODUCT

GEL

PHOTO

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PRODUCT GEL 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							

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	

PRODUCT

GEL

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PRODUCT GEL RESULTS

ANALYST: _____ **FS LAB#:** _____

DATE: _____

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

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REAGENT	LOT# / SOURCE
PRODUCT GEL	1
AGAROSE	2
0.5X TBE GEL BUFFER	3

REAGENT	LOT# / SOURCE
ETHIDIUM BROMIDE	4
LOADING BUFFER	5
0.5X TBE TANK BUFFER	6
123 bp LADDER	Invitrogen

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PRODUCT GEL 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			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

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REAGENT	LOT# / SOURCE
PRODUCT GEL	1
AGAROSE	2
0.5X TBE GEL BUFFER	3

REAGENT	LOT# / SOURCE
ETHIDIUM BROMIDE	4
LOADING BUFFER	5
0.5X TBE TANK BUFFER	6
123 bp LADDER	Invitrogen

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PRODUCT GEL 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			

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REAGENT	LOT# / SOURCE
PRODUCT GEL	1
AGAROSE	2
0.5X TBE GEL BUFFER	3

REAGENT	LOT# / SOURCE
ETHIDIUM BROMIDE	4
LOADING BUFFER	5
0.5X TBE TANK BUFFER	6
123 bp LADDER	Invitrogen

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE

PRODUCT GEL 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	1			38			
3	2			39			
4	3			40			
5	4						
6	5						
7	6						
8	7						
9	8						
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	1
AGAROSE	2
0.5X TBE GEL BUFFER	3
ETHIDIUM BROMIDE	4
LOADING BUFFER	5
0.5X TBE TANK BUFFER	6
123bp LADDER	7

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PRODUCT GEL 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							

Note:* no iso/no amp

REAGENT	LOT# / SOURCE
PRODUCT GEL	1
AGAROSE	2
0.5X TBE GEL BUFFER	3
ETHIDIUM BROMIDE	4
LOADING BUFFER	5
0.5X TBE TANK BUFFER	6
123bp LADDER	7

PRODUCT GEL PHOTO

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PRODUCT GEL RESULTS

ANALYST: _____ FS LAB#: _____

DATE: _____

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							

Note:* no iso/no amp

REAGENT	LOT# / SOURCE
PRODUCT GEL	1
AGAROSE	2
0.5X TBE GEL BUFFER	3
ETHIDIUM BROMIDE	4
LOADING BUFFER	5
0.5X TBE TANK BUFFER	6
123bp LADDER	7

PRODUCT GEL PHOTO

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REAGENT WORKSHEET

FS LAB#:

IQ - DNA IQ	**DATE:**	
REAGENT	**VOL (µL)**	**LOT# / SOURCE**
LYSIS BUFFER	175-425µL	
0.39M DTT	2.5µL/100µL	

IQP - DNA IQ ProK	**DATE:**	
REAGENT	**VOL (µL)**	**LOT# / SOURCE**
TNE	37.5	
STERILE TYPE I WATER	32.5	
20% SARKOSYL	12.5	
0.39M DTT	10	
PROTEINASE K	10	

IQD - DNA IQ DIFFERENTIAL *	**DATE:**	*If additional Lysis buffer with DTT is added to the non-sperm fraction, record the lot numbers above.
REAGENT	**VOL (µL)**	**LOT# / SOURCE**
TNE	400	
STERILE TYPE I WATER	75	
20% SARKOSYL	25	
PROTEINASE K	5	
DIGEST BUFFER WASHES	500 each	

IQTI - DNA IQ TISSUE EXT.	**DATE:**	
REAGENT	**VOL (µL)**	**LOT# / SOURCE**
CaCl2 BUFFER 1X	90	
PROTEINASE K	10	

BIOMEK DNA IQ	**DATE:**	
REAGENT		**LOT# / SOURCE**
DNA IQ LYSIS BUFFER		
0.39M DTT		
DNA IQ RESIN		
DNA IQ WASH BUFFER		
DNA IQ ELUTION BUFFER		

PLEXOR HY QUANTITATION	**DATE:**			
PLEXOR HY KIT # / SOURCE				
EXPIRATION DATE:				
	Reagent Vol. (µL) / Reaction	**Component Vol. (µL)**	**Total Vol. of Master Mix (µL):**	**342**
PLEXOR 2X MASTER MIX	10	190		
STERILE TYPE I H2O	7	133	Tube 1 Volume (uL):	Tube 2 Volume (uL):
20X PRIMER/IPC MIX	1	19	342	0
# OF REACTIONS (automatically calculated):	19			

AMPLIFICATION	**DATE:**			
POWERPLEX 16 BIO KIT# / SOURCE:		**LOT# OR CONCENTRATION**		
EXPIRATION DATE:		9947A		
	Reagent Vol. / Sample	**# of Samples**	**Total Volume**	**LOT# / SOURCE**
AmpliTaq GOLD	0.40		0	
10X GOLD ST*R BUFFER	1.25		0	
PRIMER PAIRS	1.25		0	
STERILE TYPE I WATER	4.6		0	
THERMAL CYCLER / QC DATE:				

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LARGE VOLUME REAGENT WORKSHEET

FS LAB#:

IQ - DNA IQ - LV	**DATE:**	
REAGENT	**VOL**	**LOT# / SOURCE**
TNE	187.5µl	
STERILE TYPE I WATER	187.5µl	
20% SARKOSYL	62.5µl	
0.39M DTT	50µl	
PROTEINASE K	25µl	
MAX TOTAL BUFFER PER SAMPLE	**500µl**	
LYSIS BUFFER	1mL	
0.39M DTT	2.5µL/100µL	
DNA IQ RESIN	8µL	

IQD - DNA IQ DIFF. - LV	**DATE:**	
REAGENT	**VOL**	**LOT# / SOURCE**
TNE	400µl	
STERILE TYPE I WATER	75µl	
20% SARKOSYL	25µl	
PROTEINASE K	5µl	
DIGEST BUFFER WASHES	500µl each	
LYSIS BUFFER	1mL	
0.39M DTT	2.5µL/100µL	
DNA IQ RESIN	8µL	

IQB - DNA IQ BONE	**DATE:**	
REAGENT	**VOL**	**LOT# / SOURCE**
TNE	1.2mL	
20% SARKOSYL	75µl	
STERILE TYPE I WATER	225µl	
PROTEINASE K	15µl	
BONE DIGEST BUFFER	500µl	
PROTEINASE K	35µl	
LYSIS BUFFER	1mL	
0.39M DTT	2.5µL/100µL	
DNA IQ RESIN	8µL	

IQTE - DNA IQ TEETH	**DATE:**	
REAGENT	**VOL**	**LOT# / SOURCE**
BONE DIGEST BUFFER	400	
PROTEINASE K	10	
LYSIS BUFFER	1mL	
0.39M DTT	2.5µL/100µL	
DNA IQ RESIN	8µL	

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LARGE VOLUME REAGENT WORKSHEET

FS LAB#:

BIOMEK DNA IQ	**DATE:**			
REAGENT		**LOT# / SOURCE**		
DNA IQ LYSIS BUFFER				
0.39M DTT				
DNA IQ RESIN				
DNA IQ WASH BUFFER				
DNA IQ ELUTION BUFFER				
ALUQUANT QUANTITATION	**DATE:**			
ALUQUANT KIT LOT# / SOURCE:				
EXPIRATION DATE:				
L/L PREP DATE:				
AMPLIFICATION	**DATE:**			
POWERPLEX 16 BIO KIT# / SOURCE:		**LOT# OR CONCENTRATION**		
EXPIRATION DATE:		9947A		
	Reagent Vol. / Sample	**# of Samples**	**Total Volume.**	**LOT# / SOURCE**
AmpliTaq GOLD	0.40	0	0	
10X GOLD ST*R BUFFER	1.25	0	0	
PRIMER PAIRS	1.25	0	0	
STERILE TYPE I WATER	4.6	0	0	
THERMAL CYCLER / QC DATE:				

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REAGENT WORKSHEET

FS LAB#:

OM - ORGANIC MICROCON	**DATE:**	
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	**DATE:**	
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	

IQC- DNA IQ with Calcium Chloride	**DATE:**	
REAGENT	**VOL (µL)**	**LOT# / SOURCE**
1X $CaCl_2$ Buffer	90 µL	
Proteinase K	10-20 µL	
DNA IQ Lysis Buffer (per 100 µL of Lysate)	220 µL	
0.39M DTT	2.5 µL/100 µL of IQ Lysis buffer	

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Sample Data

	+	-	+	-	+	-	+	-	+	-	+	-		
	1	2	3	4	5	6	7	8	9	10	11	12	Standards	
A													0	A
B													0.0625	B
C													0.125	C
D													0.25	D
E													0.5	E
F													1	F
G													2	G
H													4	H

DNA Standard

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Important

Notes for traditional reactions (Master Mix and Master Mix Control)
The Master Mix results must be in the odd numbered columns.
The Control results must be in the even numbered.
The DNA Standards must be in columns 11 and 12 in ascending order of concentration.

Note for modified reactions which do not use a minus-probe-control reaction.
The DNA Standards must be in column 12 in ascending order of concentration.

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	11
A	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0
H	0	0	0	0	0	0	0	0	0	0	0

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