

## 10 ANNEXES

### Annex 1. Chemicals and buffers

#### Lysis buffer (pH 7.5)

0.32 M Sucrose	10.6 g
0.01 M Tris	0.121 g
0.005 M MgCl <sub>2</sub> x 6H <sub>2</sub> O	0.1 g
1% Triton X-100	1.0 ml
Distilled water	100.0 ml
Store at room temperature	

#### 10 x PCR buffer (pH 8.3)

100 mM Tris	1.211 g
500 mM KCl	3.728 g
1 % Triton X-100	1.0 ml
DNase and RNase free water	100.0 ml
Aliquot and store at -20°C	

#### 10 x TBE buffer (pH 8.1)

1 M Tris	121.1 g
1 M Boric acid	61.8 g
20 mM EDTA	7.44 g
50 mM MgCl <sub>2</sub> x 6 H <sub>2</sub> O	10.16 g
Distilled water	1000.0 ml
Store at 4°C	

#### 10 x Electrophoresis buffer (pH 8.0)

0.36 M Tris	43.6 g
0.30 M NaH <sub>2</sub> PO <sub>4</sub>	41.4 g
0.01 M EDTA	3.72 g
Distilled water	1000.0 ml
Store at 4°C	

Ethidium bromide stock solution

Ethidium bromide	10.0 mg
DNase and RNase free water	1.0 ml
Store at room temperature	

Proteinase-K

Proteinase-K	10.0 mg
DNase and RNase free water	1.0 ml
Aliquot and store at -20°C	

Sample buffer

1 x Electrophoresis buffer	5.0 ml
50 % Glycerin	5.0 ml
100 mM EDTA	0.37 g
0.05 % Bromophenolblue	5.0 mg
Store at room temperature.	

DNA Marker

DNA Marker 50 or 100 bp	50.0 µl
1 x Electrophoresis buffer	400.0 µl
Sample buffer	50.0 µl
Aliquot and store at -20°C	

Extraction mix for DNA hair and skin

40 mM DTT (Dithiothreitol)	0.062 g
20 % Chelex 100 <sup>®</sup> Resin	2.0 g
Proteinase-K	25.0 mg
Distilled water	10.0 ml
Store at 4 °C	

Agarose Gel 2 %

Agarose	2.0 g
1 x Electrophoresis buffer	100.0 ml
Ethidium bromide stock solution	10.0 µl

NuSieve Agarose (4 %)

Agarose	4.0 g
1 x TBE buffer	100.0 ml
Ethidium bromide stock solution	10.0 µl

50 mM MgCl<sub>2</sub> stock solution

MgCl <sub>2</sub>	0.476 g
DNase and RNase free water	100.0 ml

Aliquot and store at -20°C

**Annex 2. Equipment**

Adjustable Pipettes (10, 100, 1000 µl)	Eppendorf, Hamburg, Germany
Trio-Termoblock™	Whatman Biometra, Göttingen, Germany
Balance	Sartorius GmbH, Göttingen, Germany
Centrifuge	Heraeus Sepatech GmbH, Osterode, Germany
EDTA-blood tubes	Terumo GmbH, Eschborn, Germany
Electrophoresis chamber	Whatman Biometra, Göttingen, Germany
Freezer	Bosch, Germany
Gene Quant Calculator	Amersham Pharmacia Biotech, Freiburg, Germany
Minicentrifuge	Roth GmbH, Karlsruhe, Germany
Pipettes Tips (10, 100, 1000)	Biozyme Hessisch Oldendorf, Germany
Polaroid film	Polaroid GmbH, Offenbach, Germany
Silicone membrane	Wacker Chemie GmbH, Munich, Germany
Transilluminator	Whatman Biometra, Göttingen, Germany
Venoject needles 20G x 11/2	Terumo GmbH, Eschborn, Germany
Vortex	Heidolph Instruments GmbH, Schwabach, Germany
Water bath	Julabo Labortechnik GmbH, Seelbach, Germany
Whatman filter paper No.1	Whatman Biometra, Göttingen, Germany

**Annex 3. Reagents**

Agarose	Oncor Appligene, Heidelberg, Germany
Ampli Taq Gold <sup>®</sup> DNA Polymerase	Applied Biosystems, GmbH, Darmstadt, Germany
Boric acid	Sigma Chemie GmbH, Deisenhofen, Germany
Bromphenolblue	Pharmacia LKB, Uppsala, Schweden
Chelex 100 <sup>®</sup> Resin	Sigma Chemie GmbH, Deisenhofen, Germany
DNA Marker (50, 100 bp)	Gibco, Life Technologies, Karlsruhe, Germany
DNase and RNase free water	Sigma Chemie GmbH, Deisenhofen, Germany
dNTP's	Amersham Pharmacia Biotech, Freiburg, Germany
DTT (Dithiothreitol)	Sigma Chemie GmbH, Deisenhofen, Germany
EDTA Na <sub>2</sub>	Sigma Chemie GmbH, Deisenhofen, Germany
Ethidium bromide	Sigma Chemie GmbH, Deisenhofen, Germany
KCl	Merck KGaA, Darmstadt, Germany
MgCl <sub>2</sub>	Sigma Chemie GmbH, Deisenhofen, Germany
MgCl <sub>2</sub> x 6H <sub>2</sub> O	Sigma Chemie GmbH, Deisenhofen, Germany
NaOH	Merck KGaA, Darmstadt, Germany
NuSieve Agarose	Biozyme Hessisch Oldendorf, Germany
Oil (mineral oil)	Sigma Chemie GmbH, Deisenhofen, Germany
Proteinase-K	Merck KGaA, Darmstadt, Germany
Restriction enzymes	Roche Diagnostic GmbH, Mannheim, Germany
Sucrose	Merck KGaA, Darmstadt, Germany
Tris	Sigma Chemie GmbH, Deisenhofen, Germany
Triton X-100	Sigma Chemie GmbH, Deisenhofen, Germany