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## Certificate

### Order

By order of B. Motta we were requested to perform a cell line authentication test. Following samples were examined:

<u>Our sample number</u>	<u>Client sample name</u>
CL170810_001	PBMNC L1
CL170810_002	PBMNC N1
CL170810_003	PBMNC B2
CL170810_004	Clone L1
CL170810_005	Clone N1
CL170810_006	Clone B2

### Method:

DNA was isolated separately from the samples.

Genetic characteristics were determined by PCR-single-locus-technology. 21 independent PCR-systems Amelogenin, D3S1358, D1S1656, D6S1043, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, D8S1179, D12S391, D19S433 and FGA were investigated (Promega, PowerPlex 21 PCR Kit).

In parallel, positive and negative controls were carried out yielding correct results.

**Results:**

DNA-System	DNA-criteria PBMNC L1 CL170810_001	DNA-criteria PBMNC N1 CL170810_002	DNA-criteria PBMNC B2 CL170810_003	DNA-criteria Clone L1 CL170810_004	DNA-criteria Clone N1 CL170810_005
AM	X, X	X, X	X, X	X, X	X, X
D3S1358	16, 18	15, 18	16, 17	16, 18	15, 18
D1S1656	16.3, 17	15, 15.3	14, 17.3	16.3, 17	15, 15.3
D6S1043	11, 12	12, 18	11, 18	11, 12	12, 18
D13S317	11, 13	11, 14	12, 14	11, 13	11, 14
Penta E	12, 13	5, 13	7, 10	12, 13	5, 13
D16S539	9, 13	10, 11	12, 13	9, 13	10, 11
D18S51	13, 18	14, 16	14, 20	13, 18	14, 16
D2S1338	23, 25	20, 24	20, 23	23, 25	20, 24
CSF1PO	10, 12	11, 13	10, 12	10, 12	11, 13
Penta D	9, 11	12, 13	11, 12	9, 11	12, 13
TH01	7, 8	9.3, 9.3	7, 9.3	7, 8	9.3, 9.3
vWA	16, 17	16, 16	17, 18	16, 17	16, 16
D21S11	29, 29	29, 32.2	31.2, 32.2	29, 29	29, 32.2
D7S820	8, 12	8, 10	11, 11	8, 12	8, 10
D5S818	11, 12	11, 12	13, 13	11, 12	11, 12
TPOX	8, 11	8, 11	8, 9	8, 11	8, 11
D8S1179	10, 13	13, 15	12, 13	10, 13	13, 15
D12S391	17, 20	20, 25	15, 21	17, 19	20, 25
D19S433	12, 16.2	13, 13	12, 13	12, 16.2	13, 13
FGA	24, 24	23, 25	23, 25	24, 24	23, 25

DNA-System	DNA-criteria Clone B2 CL170810_006
AM	X, X
D3S1358	16, 17
D1S1656	14, 17.3
D6S1043	11, 18
D13S317	12, 14
Penta E	7, 10
D16S539	12, 13
D18S51	14, 20
D2S1338	20, 23
CSF1PO	10, 12
Penta D	11, 12
TH01	7, 9.3
vWA	17, 18
D21S11	31.2, 32.2
D7S820	11, 11
D5S818	13, 13
TPOX	8, 9
D8S1179	12, 13
D12S391	15, 21
D19S433	12, 13
FGA	23, 25

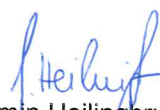
PBMNC L1 and Clone L1 show identical DNA profiles. Therefore, it is practically proven that the cell lines have the same origin.

PBMNC N1 and Clone N1 show identical DNA profiles. Therefore, it is practically proven that the cell lines have the same origin.

PBMNC B2 and Clone B2 show identical DNA profiles. Therefore, it is practically proven that the cell lines have the same origin.



Dr. Burkhard Rolf  
Director Forensic Services



Jasmin Heilingbrunner, B. Sc.  
Project Assistant DNA Forensics

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