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**Certificate
Cell Line Authentication Test
Order ID: 11106693202**

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Method:

DNA isolation was carried out from cell pellet (cell layer).
Genetic characteristics were determined by PCR-single-locus-technology.
16 independent PCR-systems D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, AMEL, D5S818, FGA, D19S433, vWA, TPOX and D18S51 were investigated.
(Thermo Fisher, AmpFISTR® Identifier® Plus PCR Amplification Kit)
In parallel, positive and negative controls were carried out yielding correct results.

Result:

Client Sample Name	8
Sample Code	CL00000354
D8S1179	10,13
D21S11	29,29
D7S820	9,11
CSF1PO	12,13
D3S1358	13,15
TH01	7,7
D13S317	8,10
D16S539	9,11
D2S1338	19,23
D19S433	14,15.2
vWA	14,18
TPOX	8,8
D18S51	13,15
AMEL	X,Y
D5S818	11,12
FGA	20,21
Database Name	Hs 1.Lu

The table shows the result of the cell line analysis and the comparison with the online database of the DSMZ (<http://www.dsmz.de/de/service/services-human-and-animal-cell>) and the Cellosaurus database (<https://web.expasy.org/cellosaurus>). Please note that only the PCR-systems according to ANSI/ATCC standard ASN-0002 were aligned (D5S818, D13S317, D7S820, D16S539, VWA, TH01, TPOX, CSF1PO, AMEL).

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The laboratory is accredited acc. to **DIN EN ISO/IEC 17025:2005**. The accreditation applies only to the test methods specified in the accreditation certificate. All analyses have been carried out with greatest care and on the basis of state of the art scientific knowledge. The results refer solely to the analysed samples. The duplication and publication also in parts requires a written authorization by this laboratory. Our General Terms and Conditions apply exclusively and are available under eurofinsgenomics.com



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