

Identification Service

Authentication of human cell lines is defined as the verification of the correct genetic identity. This requires the correct name of the cell line, because blinded samples can only be identified. The form should be printed out, signed and enclosed with the sample(s). Using the e-mail button, your order will be sent in advance, ensuring that the analysis results should be available within 4 working days.

STR (human samples): A Short Tandem Repeat Typing is performed using 17 different and highly polymorphic STR loci according to the recently published guidelines (ANSI/ATCC ASN-0002-2011. Authentication of human cell lines: Standardization of STR profiling. ANSI eStandards Store, 2011). In addition, we test all samples for the presence of mitochondrial DNA sequences from rodent cells such as mouse, rat, Chinese and Syrian hamster.

COI (animal samples): Cytochrome C Oxidase Subunit I (COI) - based DNA Barcoding is carried out by amplification and direct sequencing of a 658 bp PCR product of the 5'-translated region of the COI gene. Resulting sequences are aligned using the Barcoding of Life Database (BoLD) as published by S. Ratnasingham and P.D. N. Hebert in 2007.

If results of both procedures are inconclusive, further analyses (VNTR typing, MSI analysis, SV-40 Large T-Ag analysis etc.) are performed until a reliable result is obtained. Total cost of analysis including a full documentation, report and interpretation of results, and STR or COI sequence data is 250 €/sample. Although the DSMZ is a non-profit institute we are able to offer sales discount (50 %) upon large sample amounts (>20 á 125 €).

Shipment & Biosecurity: DSMZ is required to assess the risk level status of genetically modified cell lines of all samples prior to receipt. In the case of genetically modified organisms of risk level 1 or 2 (S1/S2) from foreign countries, we recommend shipment of isolated genomic DNA since DNA is not subject to the German "Gentechnikgesetz".

Cryopreserved samples: Ampoules should contain $1 \times 10^5/4 \times 10^6$ (min/max) of cells in storage media. Shipment on dry ice should be sent using a courier service not later than Wednesday to ensure same week delivery.

Isolated DNA: DNA samples should contain ~20 µl of 10 - 100 ng/µl of non-degraded genomic DNA and should be sent in safe-lock tubes in a padded envelope (jiffy bag) at ambient temperature to the address below:

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- Identification Service -
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Substitute:
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+49-(0)531-2616-166
Silke.Faehnrich@dsmz.de

**Identification Service
 Submission Form**

Institute/Company _____

Name _____

Department _____

Street _____

Postal code and City _____

Country _____

E-mail _____

Telephone/Fax _____

(PO no. for your invoice) _____

Report language English German

_____ Date and signature

#	Sample Name	S T R	C O I	#	Sample Name	S T R	C O I	#	Sample Name	S T R	C O I
1				8				15			
2				9				16			
3				10				17			
4				11				18			
5				12				19			
6				13				20			
7				14				21			

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