



## Sample Submission Form for Authentication / Identification Service

Service Requester / Delivery Address

**Please note:**

This submission form does not represent a formal purchase order. Please send your official purchase order to [mutz@dsmz.de](mailto:mutz@dsmz.de).

In case your sample is a **genetically modified organism (GMO)**, we cannot accept living cells. Please only send purified DNA.

Please indicate biosafety level (BSL 1 or 2) and requested service (STR typing or COI analysis) for each sample.

Preferred language of the report:                      English                      German

#	Sample name	biosafety level analysis type		Sample name	biosafety level analysis type	#	Sample name	biosafety level analysis type
1			7			13		
2			8			14		
3			9			15		
4			10			16		
5			11			17		
6			12			18		

**Please send the samples to:**

Leibniz Institute DSMZ  
Department of Human and Animal Cell Lines  
Silke Fähnrich  
Inhoffenstr. 7b  
38124 Braunschweig  
Germany

• Please refer to the following page regarding sample preparation

• Prices according to our pricelist

• Our general terms and conditions apply to all services rendered

I have carefully read and understood all of the above information.

Signature:

Date

Geschäftsführer/Directors:  
Prof. Dr. Yvonne Mast (interimsweise)  
Bettina Fischer  
Aufsichtsratsvorsitzender/Head of  
Supervisory Board: MR Dr. David Schnieders

Braunschweigische Landessparkasse  
(NORD/LB) Kto.-Nr./Account: 2 039 220  
BLZ/Bank Code: 250 500 00  
IBAN DE22 2505 0000 0002 0392 20  
SWIFT (BIC) NOLADE 2 H

Handelsregister/  
Commercial Register:  
Amtsgericht Braunschweig  
HRB 2570  
Steuer-Nr. 13/200/24030



Abteilung Pflanzenwirren:  
**DAkkS**  
Deutsche  
Akkreditierungsstelle  
D-RM-18324-01-00

## Cell Line Authentication / 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. This form should be printed out, signed and enclosed with the sample(s). Please e-mail the filled form to [mutz@dsmz.de](mailto:mutz@dsmz.de) in advance. Results are usually available within two weeks.

**STR typing (cell lines of human origin):** A Short Tandem Repeat (STR) – Typing is performed using 17 different and highly polymorphic STR loci according to the guidelines ANSI/ATCC ASN-0002-2020 (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 barcoding (cell lines of non-human, animal origin):** Cytochrome C Oxidase Subunit I (COI) – 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) (<https://boldsystems.org/>). When sending murine samples, STR typing using mouse loci will be performed. This allows strain identification of inbred laboratory mouse strains.

If results of both procedures are inconclusive, further analyses (VNTR typing, MSI analysis, SV-40 Large T analysis etc.) are performed to obtain a reliable result.

**Conditions:** Prices according to our pricelist (<https://www.dsmz.de/prices>). The DSMZ general terms and conditions (<https://www.dsmz.de/terms>) apply at all times and to all service rendered.

**Samples and shipment:** We accept genomic DNA or cell pellets for authentication / identification service.

Genomic DNA: ~20 µl of 10-100 ng/µl of non-degraded genomic DNA, prepared with a silica-based kit, in safe-lock tubes at ambient temperature

Cell pellet: minimum  $1 \times 10^5$  cells pelleted and washed once with PBS cooled or on dry ice.

Frozen / living cells: Ampoules containing minimum  $1 \times 10^5$ , maximum  $1 \times 10^6$  cells in storage media can only be accepted for not genetically modified organisms, BSL1 or BSL2.