

## SAMPLE SHIPMENT IDNAP 23

Dear colleague,

Please find enclosed the samples for the **IDNAP Proficiency Test 23**, and some important explanations, instructions and conditions. We are delighted to have you participate in the first proficiency testing scheme for the Arabian Speaking Working Group (ASWG) of the ISFG, jointly provided by the Institute for Forensic Molecular Genetics (IFMG) & the International Center for Forensic Sciences (ICFS). Please read the information contained within this document carefully and forward them also to the person(s) carrying out the practical steps of the analyses.

If you have any queries or problems, please do not hesitate to contact us.

Sincerely,



**Dr. Carsten Hohoff**

Technical Director of the  
IDNAP Proficiency Tests



**Dr. Rashed Alghafri**

Director of the International Center for Forensic Sciences  
President of ISFG Arabian Speaking Working Group (ASWG)

## **I. Notes on the samples:**

The IDNAP proficiency tests are composed of three reference samples and four stains:

IDNAP 23: person A – C; stain 1 – 4

Please bear in mind that any of the stains could consist of the DNA of a single person (“single source stain”) or of the DNA from up to 3 different persons (“mixed stain”), and that the stain material might consist of saliva, blood or semen (as well as mixtures of these materials). In principle, the stains in these Proficiency Tests could simulate any stains encountered in routine casework.

N.B.: Each participating laboratory must retain some material from every stain to allow a reanalysis in an independent laboratory, if necessary.

## **II. DNA loci that may be included in the certificate(s) for IDNAP 23:**

Tab. 1: autosomal STRs and Amelogenin \* - allelic ranges

locus	TH01	VWA	FGA	D21S11	ACTBP2	D3S1358	D8S1179	D18S51	D16S539
allele range*	2-14.3	9-25	12-34.2, 41.2-52.2	23-39	3.2-43, 48-50	8-21	4-20	6-28	3-17

locus	D2S1338	D19S433	D12S391	D2S441	D10S1248	D22S1045	D1S1656	Amelogenin
allele range *	9-29	4.2-20.2	13-28	7-18	7-20	6-21	8-21.3	X/X; X/Y

locus	TPOX	CSF1PO	D5S818	D13S317	D7S820	Penta D	Penta E	D6S1043
allele range *	3-17	4-17	5-19	4-18	4-17	1.2-18	4-25	6-26

Tab 2: Y-STRs\* - allelic ranges

System	DYS19	DYS385	DYS389I	DYS389II	DYS390	DYS391	DYS392	DYS393	DYS437
allele range *	8-20	5-29	8-18	23-36	16-30	4-17	3-21	6-19	9-19

System	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS518
allele range *	5-17	5-18	13-25	21-41	9-25	9-25	6-15	16-33	31-50

System	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	GATAH4	DYF387S1
allele range *	6-18	6-18	9-27	9-26	10-28	14-31	5-18	7-19	29-45

Notes on the table

\*: the numbers indicate the allelic range in which the classification of alleles must be made.  
for further explanations see para IV.

**III. Instructions for submitting the results**

- To submit your results (e.g., stain characterization, extraction details, genotyping, mixed-person stain calculation), please exclusively use the IDNAP forms and return them by email to [enquiries@icfs.ac.ae](mailto:enquiries@icfs.ac.ae) by no later than **18 December 2024 at 23:59 CET**.
- We also ask you to send your original laboratory data (e.g., pdf of the relevant electropherograms).

**IV. General Information**

- Please enter only numerical allele values in the results' forms; we would consider any other character (e.g., OL, F, ?) as an error, except for < and > (see below).
- 'Off-category' alleles, i.e. those alleles that are smaller than the smallest allele or longer than the longest allele in the STR systems listed in tables 1 - 2, can be reported using the "smaller than" (<) or "greater than" (>) signs relative to the

shortest or longest allele. Example: allele 18 at TPOX can be given as '>17' or as '18' – both would be considered correct. Please note that allele numbers must be given with a 1bp precision (this does not however mean that the example allele above should be scored as 18.0). Allele designations not adhering to these instructions will be considered erroneous.

- For evaluation the participants are encouraged to include original laboratory data, i.e., PDFs of the electropherograms of the IDNAP samples, the negative and positive controls **and** the corresponding allelic ladders. The allele scoring must be readily visible and unambiguous, amplicon lengths and peak heights must be readable as well. The printed copies must be clearly marked with the Proficiency Test series (IDNAP 23, respectively), with the sample name and with its laboratory code (e.g. 001). Examples of a GeneMapper analysis with proper labels are available upon request.
- If you wish to send your original data in digital form (e.g. USB stick, DVD/CD-ROM, e-mail attachment) please ensure that the files are clearly labelled and comprehensible. Electropherograms have to be sent as PDF files. Please provide your user name (also known as laboratory code)
- Qualified certificates of participation will be issued for the following modules: stain characterisation, autosomal STRs and Y-STRs.
- Certificates of participation can be issued only in the name of the institute which has actually undertaken the analysis. An analysis by a third party is not permissible.
- The error categories are defined as follows:  
Group 1: “given value” reported (green label)  
Group 2: some alleles in mixtures not reported by more than 90% of all participants  
Group 4: error(s) reported, i.e., a deviation of the actual value from the given value (red label).

## **V. Report of the result evaluation**

The evaluation of the individual and anonymized results of the Proficiency Tests IDNAP 23 will be presented on the occasion of the annual meeting of the Arabian Speaking ISFG Working Group in **March 2024** in **Dubai** at the **World Police Summit**.