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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 383-2014

Replacing GA/T 383-2002

Specifications for examination of forensic DNA laboratory

法庭科学DNA实验室检验规范

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

Instead of the standard GA/T 383-2002 "forensic DNA laboratory norms", compared with the GA/T 383-2007 main technical Surgery changes are as follows.

--- Delete the definition of "organic solvent" "Chelex Law", "silica beads Law" and "CTAB method", moved into this part of the body (see . 5.1,5.2,5.3 and 55, 2002 edition of 2.2,2.3,2.4 and 2.5);

--- Adds "DNA extraction" terms and definitions (see 3.2);

--- Increased "genetic marker" of terms and definitions (see 3.3);

--- Remove the admissibility of the case-related content (see the 2002 edition of Chapter 3);

--- Removed samples extraction and preservation-related content (see the 2002 edition, Chapter 4);

--- Remove the pre-test examination of bloodstains test species - ring precipitation test on the contents (see the 2002 edition of 5.1.2);

--- Remove the pre-test examination of bloodstains test species - counter immuno electrophoresis on the contents (see the 2002 edition of 5.1.3);

--- Remove the pre-test examination of bloodstains species trials - the gold standard test paper test method on the contents (see the 2002 edition of 5.1.4);

--- Increasing the pre-pre-test test test bloodstains on the contents of the luminol test (see 4.1.1.2);

--- Information about the contents of the pre-test bloodstains confirmatory test test test test paper gold standard method (see 4.1.2);

--- Remove the pre-test fine on the spot inspection of the pre-inspection - Services for acid

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phosphatase test (see 2002 version 5.2.1);

--- Increased pre-test fine on the spot inspection confirmatory test - the gold standard test paper test method on the contents (see 4.2.2);

--- Deleted the contents of the pre-test saliva spot test (see 2002 edition 5.3);

--- Deleted DNA extraction PCR buffer approach on the contents (see 2002 edition 6.5);

--- The equipment, reagents and an organic solvent, Chelex method, a silicon bead method and CTAB method on the contents transferred to Appendix (see Appendix A, 2002 version 6.1,6.2,6.3 and 6.4);

--- Increased DNA extraction and purification method types (see 5.4,5.6,5.7,5.8,5.9,5.10,5.11,5.12 and Annex A);

--- Deleted the contents of the quality and quantity of DNA detection assay quantification glue (see 2002 edition 7.2);

--- Remove the qualitative and quantitative detection of DNA of human DNA Quantification Kit on the contents (see 2002 edition 7.3);

--- Increased DNA quantitation other quantitative methods on the contents (see 6.3);

--- Deleted the content of the PCR reaction (see Chapter 8, edition 2002);

--- Remove the reaction product on the contents detected (see Chapter 9, 2002 edition);

--- Information about the content of human DNA sex and STR polymorphism analysis (see Chapter 7);

--- Deleted the content of anti-pollution measures, documentation, test cycle (see the 2002 edition Chapter 11, Chapter 12 and Chapter 13);

--- Increasing the reagents commonly recommended formula (see Appendix B).

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard by the National Standardization Technical Committee on Forensic Science and Technology (SAC/TC179) and focal points.

This standard is mainly drafted by. Ministry of Public Security Evidence Identification Center.

Participated in the drafting of this standard. Shanghai Public Security Bureau, Guangzhou Municipal Public Security Bureau, Beijing Municipal Public Security Bureau, the Tianjin Public Security Bureau.

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Cheng, Jiangcheng Tao, Liu, Kuangjin Zhi, Zhang, Li Caixia, Snow.

This standard replaces the standards previously issued as follows.

--- GA/T 383-2002.

Forensic DNA laboratory testing specification

1 Scope

This standard specifies the basic requirements for forensic DNA laboratory should be observed.

This standard applies to all those engaged in forensic DNA testing laboratories.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

General requirements GB/T 27025-2008 testing and calibration laboratories GA 765-2008 detect human hemoglobin gold reagent strip method GA 766-2008 human semen PSA testing gold reagent strip method

3 Terms and definitions

The following terms and definitions apply to this document.

Early test priorexamination Pre-test and confirmatory test before DNA tests conducted.

DNA extraction DNAextraction the processes and methods of DNA molecules isolated from purified proteins and other cellular material components.

Genetic markers geneticmarker Genetically determined, and capable of a certain biological characteristics of the law passed on from parent offspring.

Polymerase chain reaction; PCR A specific DNA fragments in vitro enzymatic amplification process.

4.1.1.1.1 Reagents

Benzidine reagent formula is as follows.

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