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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 242-2018

Terminology for physical and chemical examination of trace evidence in Forensics

法庭科学微量物证的理化检验术语

(English Translation)

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Foreword

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

Please note that some elements of this document may involve patents. Publication of this document the agency is not responsible for identifying these patents.

This standard replaces GA/T 242-2000 `` Physical and Chemical Examination Terms for Trace Material Evidence ". Compared with GA/T 242-2000, the main changes as follows.

--- Added terms and definitions related to physical and chemical testing of trace physical evidence (see 2.9, 2.12 ~ 2.27, 2.101, 2.123 ~ 2.125, 2.129, 2.136 ~ 2.138, 2.143, 2.150, 2.165 ~ 2.170, 2.176, 2.183 ~ 2.188, 2.193 ~ 2.197, 2.212 ~ 2.214, 2.216 ~ 2.218, 2.234 ~ 2.239, 2.246 ~ 2.254, 2.256, 2.261 ~ 2.265, 2.271 ~ 2.272, 2.275 ~ 2.278, 2.281 ~ 2.282, 2.288, 2.290 ~ 2.295, 2.301, 2.309 ~ 2.315, 2.319 ~ 2.320, 2.322 ~ 2.331, 2.337 ~ 2.341, 2.346 ~ 2.354, 2.364 ~ 2.365, 2.425 ~ 2.428, 2.433 ~ 2.439, 2.450 ~ 2.459);

--- Deleted the terms and definitions of "Atomic Absorption Spectroscopy", "Atomic Emission Spectroscopy" and "Thin Layer Chromatography" 4.2.16 ~ 4.2.20);

--- Added the terms and definitions of "Mass spectrometry", "Gas-mass spectrometry" and "LC-MS" test methods 2.229, 2.283, 2.446, 2.462);

--- Added the terms and definitions of "Capillary Electrophoresis Test Method" (see 2.189 ~ 191, 2.241 ~ 2.245);

--- Added the term and definition of "NMR" (see 2.52, 2.106, 2.139 ~ 2.140, 2.462).

This standard was proposed by the National Criminal Technical Standardization Technical Committee Physical and Chemical Inspection Standardization Technical Committee (SAC/TC179/SC4) Get out and back.

This standard was drafted. Chinese Criminal Police Academy, Chinese People's Public Security University.

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This standard was first issued in December.2000.

Physico-chemical test terms for forensic science trace evidence

1 Scope

This standard specifies the general terms and definitions of trace physical evidence and its testing methods in forensic science.

This standard applies to the unified theory of terminology and basic concepts in the field of physical and chemical examination of trace physical evidence in forensic science and other related fields.

Solution, other areas can also be used for reference.

2 Terms and definitions

Arabiamucilage

The gum secreted from a tropical wild Robinia pseudoacacia tree is white to dark red hard and brittle solid particles.

Aminoresinpaint

Amino resin and base resin such as alkyd resin, polyester resin, epoxy resin and other coatings.

Spandex fiber

A synthetic fiber composed of polyurethane.

Octogen

A violent explosive, white solid.

Semi-dryingoil

Drying performance is between dry oil and non-drying oil. It takes a long time to dry animal or vegetable oil.

Peakwidthathalfheight Peak width at half the height of a chromatographic or spectral peak.

Half microanalysis

Analysis of samples with a weight between 0.01g ~ 0.1g or a volume between 1mL ~ 10mL.

Hemicelulose

A general term for low molecular weight polysaccharide compounds in plant cells, heterogeneous glycans composed of two or more monosaccharides. Composition includes Hexoses such as glucose, mannose, saccharose, and pentoses such as xylose, arabinose

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and the like.

Spore spore

Plants produce reproduction or dormant effects, and can directly develop into new individual cells.

2.10

Retention time

The time at which the maximum concentration of a separated sample component appears after injection into the column.

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