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Collection and processing of human saliva biomaterial

人类唾液样本采集与处理

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Introduction

Human saliva is a physiological substance secreted by the salivary glands. It contains rich biological information and can reflect the state of the human body to a certain extent.

The relevant markers in human saliva samples are of great significance in disease detection. The collection of human saliva samples is simple, non-invasive, The technology has the advantages of low sensitivity, low cost, high efficiency, no restrictions on time and place, and easy acceptance by saliva sample providers.

Many scientific research units and large medical institutions in China need to collect human saliva samples for clinical and basic research.

There is currently no relevant national standard to regulate the collection and processing of saliva samples for various purposes.

This will result in uneven quality of saliva samples, making them unusable for subsequent research, causing serious waste of resources and affecting resource sharing.

Developing unified and standardized saliva sample collection and processing can identify and eliminate potential variability factors in the process, thereby improving the quality of saliva samples.

The quality of this research is beneficial to improving the consistency of the later research process and the reliability and accuracy of experimental data, which is of great significance to promoting the progress of scientific research and Optimization of clinical practice has far-reaching significance and value.

Human saliva sample collection and processing

1 Scope

This document specifies the general requirements for the collection and processing of human saliva samples, describing the pre-collection preparation, saliva sample collection, saliva sample Methods of processing and information collection of saliva samples.

This document applies to the collection and processing of human saliva samples for clinical and basic medical research involved in biobanks.

2 Normative references

GB/T 37864-2019

GB/T 38736

GB/T 43429

3 Terms and definitions

The terms and definitions defined in GB/T 37864-2019 and the following apply to this document.

3.1 Saliva

A hypotonic fluid secreted by the salivary glands.

Note. It is the mixed secretion of the parotid gland, submandibular gland, sublingual gland and various minor salivary glands, mainly composed of water, electrolytes and proteins.

3.2 Wholesaliva

Mixed saliva is the sum of all the fluids that may collect in the mouth.

Note. Includes saliva, gingival crevicular fluid, oral microbiota and its metabolites, mucosal cell fragments, nasal secretions and food residues.

3.3 parotid saliva

Saliva secreted by the parotid glands and carried to the mouth via the parotid ducts.

3.4

Saliva is secreted by the submandibular gland and sublingual gland and transported to the oral cavity from the submandibular gland duct.

Note. The sublingual gland duct flows into the submandibular gland duct. The saliva collected by the submandibular gland duct orifice includes the saliva of the submandibular gland and the sublingual gland.

3.5

Saliva is secreted by various small salivary glands in the oral cavity (such as lip glands, palatine glands, etc.) and transported to the oral cavity through the openings of the mucosal ducts in the area.

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