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**NATIONAL STANDARD OF THE
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General technical requirements of skin-on-a-chip

皮肤芯片通用技术要求

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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.

This document was proposed and coordinated by the National Biochip Standardization Technical Committee (SAC/TC421).

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General technical requirements for skin chips

1 Scope

This document specifies the general technical requirements for skin microarrays and provides instructions for marking, labeling and accompanying documents, packaging, transportation and storage.

This document applies to the design, production and testing of skin chip products using microfluidic chips as carriers.

2 Normative references

GB/T 191

GB/T 2410

GB/T 2423.23-2013

GB/T 9969

GB/T 16886.5

GB/T 27990

GB/T 39514

3 Terms and Definitions

The terms and definitions defined in GB/T 27990, GB/T 39514 and the following apply to this document.

3.1 microfluidic chip

It is made of silicon, glass, metal materials, polymers and other materials as the base material, and is processed using micro-nano processing, precision injection molding and other processing technologies. biochip.

Note. It includes one or more micro-channels, micro-valves, micro-reaction pools (chambers) and other functional units, which can complete the precise control of liquid and gas flow in the chip, thereby To realize a specific biochemical reaction function.

[Source. GB/T 41407-2022, 3.3, modified]

3.2 skin-on-a-chip

Microfluidic chips in vitro can generate micro cells and tissues that can mimic the biochemical and physiological characteristics of the skin and have barrier structure and function. Tissue culture devices.

3.3 [Source. GB/T 2410-2008, 3.2]

The ratio of the luminous flux passing through the sample to the luminous flux incident on the sample, expressed as a percentage.

3.4 Leaktightness

The property of the chip and its associated materials to prevent the contents from spilling or other substances from entering.