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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 2985-2008

Replace GB/T 2985-1999

Biological microscope

生物显微镜

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**Standardization Administration of the People's Republic of
China**

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Foreword

This Standard replaces GB / T 2985-1999 *Biological Microscope*.

Main differences between this Standard and GB/T 2985—1999 are:

—Added performance requirements of photography and video system, and provides the corresponding test methods.

—Electrical Safety Performance Requirements is developed according to relevant requirements of GB 4793.1-2007 *Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use -- Part 1: General Requirements*, which also specifies the test methods.

—The requirements for four technical indicators including "objective aberration correction and clear vision", "requirements for condenser", "revolving nosepiece positioning error" and "fine tuning mechanism backlash" in the original version are changed from references to other relevant standards to specific indicator requirements.

—The mechanical tube length of universal microscope was modified to 160 mm or ∞ .

—The fit dimension of eyepiece and lens tube of the universal microscope was modified to $\phi 23.2 \frac{F8}{H8}$.

—The magnification tolerance of objective and eyepiece of microscope was modified to $\pm 5\%$.

—Not make specific provisions for models of Test Tool SY-1 type bacterial inspection slide, SY-2 type blood cell inspection slide, namely delete SY-1 type and SY-2 type.

—Modify Test Tool 600 lines / mm grid grating to 600 lines / mm grating.

—Delete the sampling plan of type inspection in inspection rules.

This Standard was proposed by China Machinery Industry Federation.

This Standard was under the jurisdiction of National Technical Committee (SAC/TC 103) on Optics and Photonics of Standardization Administration of China.

This Standard was drafted by University of Shanghai for Science and Technology, Ningbo Yongxin Optics Co., Ltd., Ningbo Teaching Instrument Co., Ltd., Ningbo Huaguang

Precision Instrument Co., Ltd., Wuzhou Oka Optical Instrument Co., Ltd., Ningbo Sunny Instruments Co., Ltd., Guangzhou Liss Optical Instrument Co., Ltd., Nanjing Jiangnan Novel Optics Co., Ltd., Motic China Group Co., Ltd. and Phenix Optics Co., Ltd.

Drafting unit participated in this Standard: Chongqing Photoelectric Instrument Co., Ltd.

The main drafters of this Standard: Huang Weijia, Hu Yu, Mao Lei, Wang Guorui, Xu Liming, Zhang Jinghua, Shen Xiaojiang, Li Migao, Li Xi, Xiao Qian, Wu Guotong.

The issuances of previous versions of the standard replaced by this Standard are as follows:

——GB 2985-1982, GB 2985-1991, GB/T 2985-1999.

Biological microscope

1 Scope

This Standard specifies the classification and basic parameters, requirements, test methods, inspection rules, marks, packaging, storage and transportation of biological microscope products.

This Standard applies to various types of biological microscopes with mechanical tube length of 160 mm or infinite observed in visible light.

This Standard applies to various types of biological microscopes (hereinafter referred to as the microscope) by the use of photography and video technology for image viewing and processing.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 2609 Microscopes - Objectives

GB/T 2828.1 Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection (GB/T 2828.1-2003, IDT ISO 2859-1:1999)

GB/T 9246 Microscopes—Oculars (eyepieces)

GB/T 9247 Microscopes—Condensers

GB/T 15464 General-purpose specification for the packaging of instrumentation products

GB/T 22055.1 Microscopes - Screw threads for objectives and related nosepieces - Part 1: Screw thread type RMS (4/5in×1/36in) (GB/T 22055.1-2008, IDT ISO 8038-1:1997)

GB/T 22056 Microscopes - Marking of objectives and eyepieces (GB/T 22056-2008, MOD ISO 8578:1997)

GB/T 22057.1 Microscopes - Imaging distances related to mechanical reference

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