

ICS 19.080

CCS N09



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

GB 4793.7-2008

**Safety requirements for electrical equipment for measurement,
control, and laboratory use - Part 7: Particular requirements for
laboratory centrifuges**

测量、控制和实验室用电气设备的安全要求 第7部分：实验室用离心机的特殊要求

(English Translation)

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

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Foreword

All technical contents of this section is mandatory.

GB 4793 "measurement, control and laboratory safety requirements for electrical equipment" is currently divided into seven parts.

- Part 1.General requirements (IEC 61010-1);
- Part 2.Particular electrical measurement and test requirements held and hand operated current sensors (IEC 61010-2-032);
- Part 3.laboratory mixing and stirring equipment Particular requirements (IEC 61010-2-051);
- Part 4.Particular requirements for laboratory use (IEC 61010-2-041) Autoclave treatment of medical material;
- Part 5.Safety electrical measurement and test requirements of the handheld probe assembly (IEC 61010-031);
- Part 6.Laboratory Particular requirements (IEC 61010-2-010) heating of materials;
- part 7.Particular requirements for laboratory centrifuges (IEC 61010-2-020).

Note: The name of the section will change with changes in IEC standard names.

This is Part 7 GB 4793's.

This section is equivalent to using 61010-2-020 IEC.2006 "measurement, laboratory control and the second section 2-020 Safety requirements for electrical equipment

Points. Particular requirements for laboratory "with centrifuges (in English). Technical content, structure, and text expressions and IEC 61010-2-020.

2006 exactly the same. For ease of use, the present editorial changes made the following section.

"," --- replaced by a decimal decimal comma ",";

--- omitted IEC 61010-2-020.2006 contents Foreword and "Appendix H (informative) defined Index";

--- For IEC 61010-2-020:2006 references other international standards have been adopted as identical or modified our standards, this

Partially replaced with corresponding international standards of national standards or industry standards; the rest No equivalent or modify adopted as our standard

Quasi-international standards, are directly referenced in this section.

This section is GB 4793.7-2001 "measurement, control and laboratory centrifuge for special electrical safety laboratory equipment

Seeking ". Revision (IEC 61010-2-020 1992, IDT) is.

This section must be combined GB 4793.1 "measurement, control and laboratory use Part 1 safety requirements for electrical equipment. General Requirements"

Since use. Stated in this section "applicable" portion represents the corresponding strips GB 4793.1 apply to this section; this section states that "place" or

"Edit" section, to show that this part of the article subject; in this section indicate the "increase" portion, in addition to meeting indicate corresponding GB 4793.1

To section, this section must meet the increased strip. In order to distinguish the bar GB 4793.1, this part of the increase in the number of bars 101 open

Beginning, e.g. 3.1.101, this part of the increase in Appendix begin with AA, AA e.g. Appendices, Appendix BB.

This part of GB 4793.7-2001 have more major changes. many of the provisions in the text has been modified, with a standard structure

GB 4793.1-2007 were adjusted for a number of test methods to do a more detailed explanation.

--- Test Method rotating assembly of moving parts;

--- protection method of scattering or ejection of parts parts;

--- Test Method for preventing dangerous part of the fluid and the freezing of the water-cooled laboratory centrifuge;

--- dynamic seal microbiological testing methods.

Appendix AA in this section are normative, Appendix BB is an informative annex.

This section was proposed by China Machinery Industry Federation.

This part of the jurisdiction of the National measurement, control and electrical equipment Safety Laboratory Standardization Technical Committee (SAC/TC338).

The drafting of this section. of Instrumentation Comprehensive Economic Institute of

Technology.

1 Scope and Purpose

Except as follows, GB 4793.1 Chapter 1 apply.

1.1 Scope

instead.

This section GB 4793 applies to electric laboratory centrifuge.

NOTE: If the whole or part of the device both are within the scope of this section, and belongs to one or more other partial range GB 4793, then it needs to meet

Requirements of other relevant standards in GB 4793.

1.1.2 within the scope of this section does not include

increase.

Add the following entry.

aa) IEC 60034 (rotary electric machine);

1.2 Purpose

Aspects of the contents within the scope of this 1.2.1

increase.

Add the following entry.

aa) in contact with the moving parts (see 7.2);

bb) mobile laboratory centrifuge at breakage (see 7.3.101);

cc) after breakage of rotor energetic chemical reaction [see 7.6.101.21)];

dd) ring failure (see 13.101).

1.2.2 aspects of the content within the scope of this section does not include

increase.

Add the following entry.

aa) separation of flammable or explosive material should be subject to additional precaution (see 5.4.101);

bb) a chemical reaction and separation can occur when the resulting large amount of gas hazardous materials subject to additional precautions initiator (see

5.4.101).

1.4.1 normal environmental conditions

modify.

The c) the content modification as follows.

c) at a temperature of 2 °C ~ 40 °C;

1.4.2 Extended environmental conditions

modify.

The c) the content modification as follows.

c) ambient temperature is below or higher than 2 °C 40 °C;

2 Normative references

Terms of the following documents constitute provisions of this section by reference in this section 4793 of the GB. For dated references,

GB 4793.7-2008/IEC 61010-2-020.2006

All subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encouraged to reach an agreement under this section

Whether the parties to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 4793.1 measurement, control and laboratory use Part 1 safety requirements for electrical equipment. General requirements (GB 4793.1-

2007, IEC 61010-1.2001, IDT)

Except as follows, GB 4793.1 Chapter 2 apply.

increase.

ISO 3864 (all parts) color and graphical symbols Safety Safety symbol

3 Terms and Definitions

Except as follows, GB 4793.1 Chapter 3 are applicable.

Category 3.1 equipment and devices

increase.

Add the following three new definitions.