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NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1089-2013

Verification Regulation of Osmometers

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(English Translation)

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7.5 Test cycle (3)

Appendix A test original record format (4)

Appendix B test certificates/test results in the notice page format (5)

Introduction

JJF1002-2010 "national verification procedures write rules", JJF1001-2011 "common terminology and measurement the definition of "together constitute the support of the protocol development of the basic family of specifications.

This procedure of "People's Republic of China Pharmacopoeia" (2010 edition) of the osmolarity of the analyzer requirements as the basis for the development.

This procedure was first formulated.

Osmolality analyzer test procedures

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1 Scope

The order applies to the use of the principle of freezing point depression osmolality analyzer (hereinafter referred to as equipment) for the first time Test, test and subsequent use of checks.

2. References

People's Republic of China Pharmacopoeia (2010 edition) Appendix VH osmolarity assay for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 terminology and units of measurement 3.1 capacity osmolarity Osmolarity Per liter of solution refers to the number of moles of solute in the permeate, Osmol·L-1 units or mOsmol·L-1, 1Osmol·L-1 = 1000mOsmol·L-1.

3.2 wt osmolality Osmolality Refers to the solute per kilogram of solvent penetration mole number of units Osmol · kg-1 or mOsmol · kg-1, 1Osmol · kg-1 = 1000mOsmol · kg-1.

4 Overview

The instrument works by indirectly measuring the osmolarity of the solution using the freezing point depression. The temperature measurement Probe immersed in the center of the solution, and fell to the instrument cooling slots. Start the cooling system, when the temperature dropped below freezing solution the next, the instrument uses an oscillator (or metal probe) induced by freezing the solution, automatically record the temperature of the freezing point depression. instrument Data processing system after the temperature of the freezing point depression of the data processed by the terms of osmolality.

Instrument usually consists of refrigeration systems, temperature measurement system, temperature control system, data processing system and a display system and other parts composition.

5 metering performance requirements Instrumental performance indicators are shown in Table 1.

Table 1 test and measurement of project performance indicators

No. test items measured performance indicators

1 Indication error

Not more than 400mOsmol · kg-1 when no more than ± 6mOsmol · kg-1 Concentrations greater than 400mOsmol · kg-1 when no more than ± 1.5%

2 Repeatability <=2mOsmol · kg-1

3 Stability <=2mOsmol · kg-1

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