Australian Standard™

Laboratory glassware—
One-mark pipettes

Standards Australia

This Australian Standard was prepared by Committee CH-001, Laboratory Glassware and Related Apparatus. It was approved on behalf of the Council of Standards Australia on 15 November 2002 and published on 11 December 2002.

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PREFACE

This Standard was prepared by the Standards Australia Committee CH-001, Laboratory Glassware and Related Apparatus to supersede AS 2166—1995, *Laboratory glassware—One-mark pipettes*.

This Standard is based on but not equivalent to ISO 648:1977, *Laboratory glassware—One-mark pipettes* (reconfirmed 1999). This edition is essentially the same as the 1995 edition but has been reformatted for clarity and Clause 7.1 considering delivery time has been re-written.

The objective of this Standard is to provide a specification for one-mark pipettes required for general use in laboratories.

CONTENTS

STANDARDS AUSTRALIA

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1 SCOPE

This Standard sets out requirements for one-mark pipettes, suitable for general laboratory purposes. Two classes of accuracy are specified, Class A pipettes being of higher accuracy than Class B pipettes.

NOTE: The method of verification and notes for the use of one-mark pipettes are given in AS 2162.1.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
2162 Verification and use of volumetric apparatus
2162.1 Part 1: General—Volumetric glassware

ISO
1769 Laboratory glassware—Pipettes—Colour coding

3 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

3.1 Capacity

The volume of water at 20°C, expressed in millilitres, delivered by the pipette at 20°C, when it is filled to the graduation line and emptied in accordance with the method given in AS 2162.1.

3.2 Delivery time

The duration of descent of the water meniscus from the graduation line to the point at which it appears to come to rest in the jet.

3.3 Waiting time

The time allowed, after the delivery time, to ensure that the total amount of liquid for which the pipette is calibrated has been delivered.

4 NOMINAL CAPACITIES AND TOLERANCES ON CAPACITIES

The nominal capacities and tolerances on the capacities of one-mark pipettes shall be as specified in Table 1.

