~~Designation:E923–97 (Reapproved 2003)~~ Designation: E 923 – 97 (Reapproved 2008)

Standard Specification for Glass Westergen Tube, Reusable[1]

This standard is issued under the fixed designation E 923; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification describes requirements for a tube that measures the erythrocyte sedimentation rate (ESR). ESR is the suspension stability of red cells in diluted, anti-coagulated human blood.

1.1.1 The use of the term "rate" is, strictly speaking, not correct. The test measures the amount of settling of red cells after a specified time.

1.2 The tubes are used together with a special rack to ensure they remain in a vertical position during the test.

1.3 This specification includes many dimensional requirements that are, for the most part, in agreement with the British Standards Institution, German Standards Institute, International Committee for Standardization in Haematology, and the National Committee for Clinical Laboratory Standards publications on Westergren tubes. The clinical procedure using the tube described in this specification is known as the "Westergren Method."

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

E 438 Specification for Glasses in Laboratory Apparatus
E 920 Specification for Commercially Packaged Laboratory Apparatus
E 921 Specification for Export Packaged Laboratory Apparatus
E 1133 Practice for Performance Testing of Packaged Laboratory Apparatus for United States Government Procurements
E 1157 Specification for Sampling and Testing of Reusable Laboratory Glassware

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *reusable*—capable of being used again.

3.1.2 *tube*—the word "tube" rather than "pipet" is used to describe this instrument. The word "pipet" should be reserved for volume-measuring instruments thus designated. A tube used for measurements of blood sedimentation rate is not a volume measuring instrument. In this connection, misunderstanding can occur when a Westergren "tube" is described as a "pipet."

3.1.3 *Westergren*—The surname of the individual responsible for the design of the Westergren tube and the method of use.

4. Classification

4.1 This specification covers a tube that is intended to be used until it is no longer considered functional for the purpose intended. The specification is specifically written for a reusable item and is not to be confused with a disposable tube that is described in other published standards.

5. Materials

5.1 The tubes made to this specification shall be fabricated from borosilicate glass, Type I, Class B; or soda lime glass, Type II, in accordance with Specification E 438.

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[1] ~~This specification is under the jurisdiction of ASTM Committee E41 on Laboratory Apparatus and is the direct responsibility of Subcommittee E41.01 on Glass Apparatus.~~

~~Current edition approved Nov. 10, 1997. Published February 1998. Originally published as E923–83. Last previous edition E923–93.~~

[1] This specification is under the jurisdiction of ASTM Committee E41 on Laboratory Apparatus and is the direct responsibility of Subcommittee E41.01 on Apparatus Current edition approved Nov. 1, 2008. Published January 2009. Originally approved in 1983. Last previous edition approved in 2003 as E 923 – 97 (2003).

[2] ~~Annual Book of ASTM Standards, Vol. 14.02.~~

[2] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.