



Designation: D 6499 – 003

Standard Test Method for The Immunological Measurement of Antigenic Protein in Natural Rubber and its Products¹

This standard is issued under the fixed designation D 6499; 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 test method covers an immunological method to determine the amount of antigenic protein in natural rubber and its products using rabbit antisera specific for natural rubber latex (NRL) proteins. This immunoassay procedure quantitatively measures the level of antigenic latex proteins in solution using an inhibition format. The samples may include glove or other rubber product extracts which have been collected in order to measure the latex protein levels. Although this method detects antigenic proteins, it should not be considered as a measure of allergenic proteins. Correlation of protein/antigen levels with the level of allergenic proteins has not been fully established.

1.2 For the purpose of this test method, the range of protein will be measured in terms of microgram to milligram quantities.

1.3 *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:

¹ This specification is under the jurisdiction of ASTM Committee D11 on Rubber, and is the direct responsibility of Subcommittee D11.40 on Consumer Rubber Products. Current edition approved Feb. June 10, 20003. Published ~~March~~ June 2003. Originally approved in 2000. Last previous edition approved in 2000 as D 6499 – 00.