



Designation: D 3648 – 9503

Standard Practices for the Measurement of Radioactivity¹

This standard is issued under the fixed designation D 3648; 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 These practices cover a review of the accepted counting practices currently used in radiochemical analyses. The practices are divided into four sections:

~~General Information~~	Section
~~General Information~~	~~5 to 10~~
~~Alpha Counting~~	~~6 to 11~~
~~Alpha Counting~~	~~11 to 21~~
~~Beta Counting~~	~~12 to 22~~
~~Beta Counting~~	~~22 to 32~~
~~Gamma Counting~~	~~23 to 33~~
~~Gamma Counting~~	~~33 to 40~~
~~Gamma Counting~~	~~34 to 41~~

1.2 The general information sections contain information applicable to all types of radioactive measurements, while each of the other sections is specific for a particular type of radiation.

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:*

⁺ Precision and Bias These

¹ These practices are under the jurisdiction of ASTM Committee D-19 on Water and are the direct responsibility of D19.04 on Methods of Radiochemical Analysis . Current edition approved April 15, 1995; March 10, 2003. Published June 1995; May 2003. Originally published as D 3648 – 78; approved in 1978. Last previous edition D 3648 – 78 (1987)^ε1, approved in 1995 as D 3648 – 95.