



24116-Review

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SIMILAR**Name of Journal:** *World Journal of Virology***ESPS Manuscript NO:** 24116**Manuscript Type:** Letters To The Editor**Determination of 50% endpoint titer using a simple formula****Muthannan Andavar Ramakrishnan****Abstract**

Two commonly used methods for calculating 50% endpoint using serial dilutions are Spearman- Karber method and Reed and Muench method. To understand/apply the above formulas, moderate statistical/mathematical skills are necessary. In this paper, a simple formula/method for calculating 50% endpoints has been proposed. The formula yields essentially similar results as those of the Spearman-Karber method. The formula has been rigorously evaluated with several samples.

Keywords: Endpoint dilution, TCID₅₀, Spearman-Karber, Reed and Muench

Core tip: The formula described in this manuscript can be used to calculate 50% endpoint titre such as TCID₅₀%, LD₅₀, TD₅₀ etc. in addition to the currently existing methods. The proposed formula can be applied without the help of calculator or computer.

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Measurement of viruses by end-point dilution assay

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2009年7月13日 - The **end-point** dilution assay was used to **measure** virus titer before the development of the ... The same approach is used: **serial dilutions** of viruses are made and ... **A simple** method of estimating fifty percent **endpoints** of both the Spearman-Kärber and Reed-Muench **50% endpoint calculation** methods.

[DOC] VIRUS TITRATION REED-MÜENCH METHOD.docx

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Subsequently transfer 1ml of previous virus **dilution** to next **dilution** by **using** at each step a fresh pipette, to achieve **serial** tenfold **dilutions**. Inoculate 0.03 ... The **50% end point dilution** which in this case is expressed as TCID₅₀/ml can be **calculated** by **using** either ... **Calculation** of the LD₅₀ titre by the Reed-Muench method.

[PDF] 11

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To perform quanta] assays, **serial dilutions** of virus are inoculated in. (1) cell culture ... REED AND MUENCH **CALCULATION** OF THE 50% **ENDPOINT**: The method of ... This method is **simple** and easy to **use**. In table 11.1 ... Sample data used to **determine** the **50% endpoint using** the Reed and Muench method. Log of virus ...

[DOC] 06_virology_viral_quantification.docx

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Subsequently transfer 1ml of previous virus dilution to next dilution by using at ... dilution and calculate the virus titre by using Reed-Muench or Karber formula. ... Reed and Muench devised a simple method for estimation of 50% endpoints ...

Measurement of viruses by end-point dilution assay

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2009年7月13日 - The end-point dilution assay was used to measure virus titer before the development ... Therefore the virus sample contains $10^{6.5}$ LD₅₀ units. ... I have calculated using the Reed and Muench method that my virus' TCID₅₀ is $5.1E-7$ 27, 493–497, for calculation of LD 50.493–497. for calculation of LD 50.

[PDF] Virological Methods

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Visualization of virus particles requires the use of the electron microscope ... One problem of the shadowing process is that it tends to result in sample desiccation, and ... Finally, the endpoint dilution assay can be used to determine titers of many viruses, ... Formulae. $I = \{ \cdot (\% \text{ of wells infected at dilution above } 50\% - 50\%) \}$.

Appendix 10. Calculation and recording sheets

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找到约 221,000 条结果 (用时 0.78 秒)

[DOC] **VIRUS TITRATION REED-MÜENCH METHOD.docx**

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Subsequently transfer 1ml of previous virus dilution to next dilution by using at ... dilution and calculate the virus titre by using Reed-Muench or Karber formula. ... Reed and Muench devised a simple method for estimation of 50% endpoints ...

Measurement of viruses by end-point dilution assay

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2009年7月13日 - The end-point dilution assay was used to measure virus titer before the development ... Therefore the virus sample contains $10^{6.5}$ LD50 units. ... I have calculated using the Reed and Muench method that my virus' TCID50 is $5.1E-7$ 27, 493–497. for calculation of LD 50.493–497. for calculation of LD 50.

Appendix 10. Calculation and recording sheets

www.fao.org/docrep/005/ac802e/ac802e0w.htm ▾ 翻译此页

Results of HA test; Calculated infectivity titre in EID50/mL. Dilution ... Calculation of EID50/mL of virus suspension using Reed and Muench Sample A 5.4.01. 1.

[PDF] **Virological Methods**

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Visualization of virus particles requires the use of the electron microscope. (EM). ... directly count the number of virus particles within a sample – regardless of whether or ... Finally, the endpoint dilution assay can be used to determine titers of many viruses, ... Formulae. $I = \{ \cdot (\% \text{ of wells infected at dilution above } 50\% - 50\%) \}$.

[PDF] **11**

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virus stock, where a titer is defined as a given number of infectious virus units per