



Virus Counter 2100 Product Sheet

Highlights

- ✓ Delivers a quantitative, non-subjective measure of the number of intact virus particles per unit volume **within minutes**
- ✓ Streamlines R&D efforts with greater efficiency and **faster results**
- ✓ Provides a time-effective and **cost-effective** alternative or complement to plaque titer assays, immunoassays and TEM
- ✓ **Easy-to-use**, intuitive software for real-time data analysis
- ✓ **High impact** for Vaccine R&D, Antiviral Research, Viral Vectors and Protein Expression

STREAMLINE VIRUS QUANTIFICATION

Are there steps in your process where a rapid measure of virus concentration would enhance productivity? The Virus Counter is a compact and easy-to-use instrument that provides a direct measurement of virus particle concentration within minutes. Unlike conventional plaque titer assays, which take days to complete, the Virus Counter provides accurate and quantitative results in less than 10 minutes. The instrument requires minimal technical training and its small footprint makes it an easy addition to the lab.



The Virus Counter is a unique, “personal” flow cytometer designed specifically for virus quantification. Similar to virus concentration determined by transmission electron microscopy (TEM), the Virus Counter provides a measurement of the total number of virus particles per mL (vp/mL). Unlike TEM however, the assay can be completed in minutes by lab personnel at a per sample cost ~1000x lower than for TEM.

ACCELERATE R&D EFFORTS

The Virus Counter will dramatically impact your R&D efforts by enabling you to spend more time doing science and less time waiting for virus titer results. The assay involves a simple staining step followed by direct analysis. The Virus Counter software is intuitive and easy to use, featuring *real-time* data analysis which further reduces the time to result.

“It is enough for me to say that using the Virus Counter was effective in replacing 2 hours of work and 6 days of waiting for results with only 30 min to 1h to get a conclusive result. The Virus Counter has had and will have a great impact on our work stream, specifically when results are needed right away to start the next step of the experiment.”

Wafaa Mahmoud, Ph.D., Cell Culture Manager, Protein Sciences Corporation

FAST RETURN ON INVESTMENT

The Virus Counter assay utilizes universal nucleic acid and protein stains, eliminating the need for expensive antibodies. The reagent cost per assay is comparable to the reagent costs of a plaque titer assay. Thus, the Virus Counter is more cost-effective than methods such as quantitative PCR and transmission electron microscopy, and more time-effective than methods such as plaque assays or immunoassays.

Each Virus Counter comes complete with a Starter Kit containing all of the necessary supplies to get you up and running quickly. Reordering supplies is simple, with time saving one-stop shopping at the InDevR website.

GENERAL SAMPLE CONSIDERATIONS

- ✓ **Virus Genome:** >9000 nt,bp
- ✓ **Virus Size:** >25 nm
- ✓ **Titer:** >10⁶ pfu/mL
- ✓ **Purification:** depends on virus and matrix, and a clarification step is generally sufficient

TECHNICAL SPECIFICATIONS

Components	ITEM
	ViroCyt 2100 Virus Counter
	100-240 volts AC, 50-60 Hz power adapter
	Notebook computer with Windows operating system, mouse, USB cable Virus Counter software installed and CD (with a single license per instrument)
Starter Kit	INCLUDED
Hardware	CE Certified
	Excitation source: laser (Class 3B)
	Light detectors: photomultiplier tubes Compressed gas source: instrument air (customer to provide air or N ₂ at 15 psi)
Environment	65-80°F (18-27°C)
Weight	29 lbs
Dimensions	17" W x 17" D x 11" H
Power	100-240 volts AC, 1.5 amps, 50-60 Hz
Warranty	Basic warranty: 1 year parts, 90 days labor and travel (Warranty Terms and Conditions apply)
	Gold Package: Unlimited service by phone/Internet, response within 1 business day All instrument parts, labor, travel for up to 3 field service calls
	Platinum Package: Unlimited service by phone/Internet, response within 1 business day 1 scheduled on-site maintenance All instrument parts, labor, travel for up to 3 priority field service calls