deltaTITER
Baculovirus Analysis

One hour reliable titration
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A new approach to analysing baculovirus, that will free researchers from the constraints of time-intensive traditional plaque analysis and other methods.

deltaTITER allows researchers to accurately quantify the amount of baculovirus in a sample in as little as one hour. The method is kit-based, automated and simple to use. deltaTITER uses a proprietary buffer system that utilises deltaDOT's state-of-the-art HPCE technology. The results show excellent reproducibility of 6% relative standard deviation.

In R&D, scale-up and production phases, deltaTITER gives an excellent return on investment by drastically reducing cycle times. deltaTITER has been developed in collaboration with the pharmaceutical industry, to ensure that it meets your needs.

Benefits
- Fast – results in 1 hour
- Accurate – relative standard deviation of ~ 6%
- Innovative – proven analytical separation technology
- Time-saving – significant reduction in cycle time
- Simple – automated and kit-based
- Reproducible – from titration to titration
- Universal – across R&D, scale-up and production

Baculovirus kit workflow - easy 3 step process
- Step by step instructions lead you through analysis
- All buffers and filters supplied

1. Load sample & buffer into filter & spin
2. Collect, add buffer and aspirate
3. Load into machine and run automated script

GET RESULTS

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Figure 1: Ease of baculovirus quantification from single peak

Figure 2: A. Increased signal to noise using GST processing from a multipixel detector.

Figure 3: Reproducibility %RSD <6. Plaque assay reproducibility ~%RSD 50. 15 runs overlaid

Figure 4: Dilution series on stock 6.7x10^6 pfu/ml. 1:2, 1:5, 1:10, 1:100s

Figure 5: Excellent linearity is shown calibration curve in a concentration range between 1.2x10^6 and 1.0x10^8 pfu/ml

Experimental results in collaboration with Biological Reagents and Assay Development, GlaxoSmithKline Research & Development, Harlow UK.

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"The new deltaTITER kit, used in combination with the Peregrine system, has the potential to dramatically speed up the process of generating proteins using the baculovirus expression system by reducing the time to acquire a virus titer from 4-5 days to 1 hour. Initial experiments look very promising and we look forward to eliminating the need for plaque assays altogether."

Dr David McMillan
Senior Group Leader - protein production
UCB