Infectivity Assays used for vaccine development

- The gold standard viral titer method to quantitate the amount of virus and the product produced takes 7-10 days to obtain a result.

- Detection of viral loads after infection – rapid feedback on vaccine and viral vector infectivity.

- LumaCyte’s Radiance™ instrument can detect and quantitate viral titers in mammalian cells in just minutes per sample.

- Direct correlation of measurements with cell burst size (pfu/cell).

- Useful for vaccine infectivity assays and viral vectors for both R&D and manufacturing (timing...
Radiance™ data for Adenovirus infection of HEK cells

- Infection causes shifting peaks
- Adenovirus infected HEK cells not seen in control sample

Graphs showing:
- **Adenoviral Infection of HEK cells**
  - Burst Size (pfu/cell)
  - Percentage of Infected Cells

- **Radiance™**
  - Frequency vs. Velocity (um/sec)
  - MOI 0, MOI 1, MOI 5 day comparisons

**Graph Details**
- **Velocity (um/sec)**
  - MOI 0
  - MOI 1
  - MOI 5

**R² = 0.9002**

**Table**
- **Day 1**
  - MOI 0
  - MOI 1
  - MOI 5
  - MOI 20

- **Day 2**
  - MOI 0
  - MOI 1
  - MOI 5
  - MOI 20

- **Day 3**
  - MOI 0
  - MOI 1
  - MOI 5
  - MOI 20

Radiance™ Lighting the way to cell discovery

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