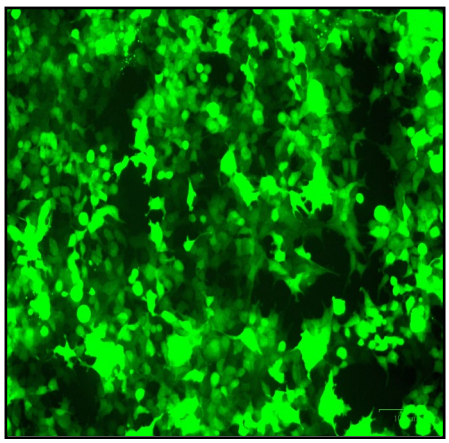
# Certificate of Analysis

**Product Description**

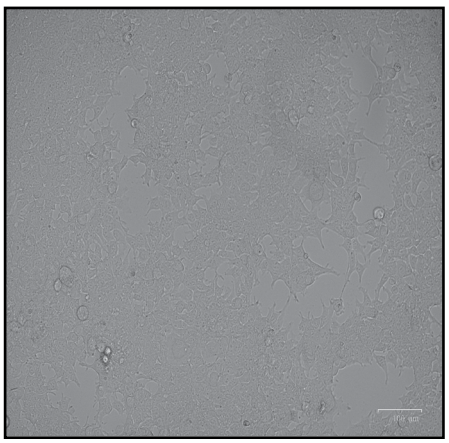
| | |
|---|---|
| Product Name | Lenti-III-mir-Off Control Virus |
| Cat Number | m008 |
| Lot Number | KL8150 |
| Quantity | 2 x 50 µl |
| Fluorescence Tag | GFP |
| Viral Titer | 2.01 x $10^8$ IU/ml |
| QC Evaluation Cell Line | 293T Cells (Cat no. LV010) |

**Specifications**

| | Test Method | Minimum | Results |
|---|---|---|---|
| Viral Titer | qRT-PCR | 1.0 x $10^7$ IU/ml | 2.01 x $10^8$ IU/ml |
| Transduction Signal | Fluorescence Evaluation | *** | Positive |
| Sterility Test | Direct Culture | *** | Not detected |



Fluorescent Tag: GFP



Brightfield Image

Transduction Duration: 72 Hours

MOI: 4.02

Multiplicity of Infection (MOI) Calculation Method:

$$\text{MOI} = \frac{\text{Product Titer (IU/ml)} \times \text{Virus Volume (ml)}}{\text{Total Cell Number}}$$



1-3671 Viking Way,
Richmond, BC. Canada V6V2J5
T e l : 6 0 4 - 2 4 7 - 2 4 1 6
F a x : 6 0 4 - 2 4 7 - 2 4 1 4
w w w . a b m G o o d . c o m

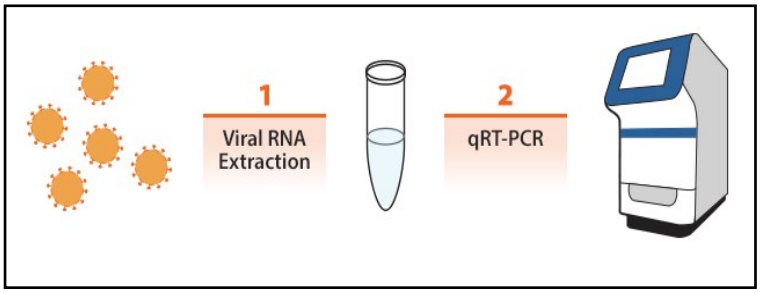
# Lentivirus qRT-PCR Titer Report

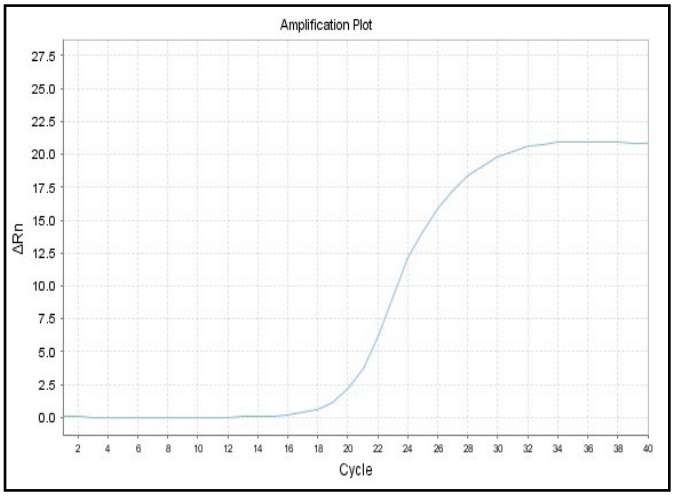
**Cat No. m008**

**Lenti-III-mir-Off Control Virus**

**( 05/17/2016 )**

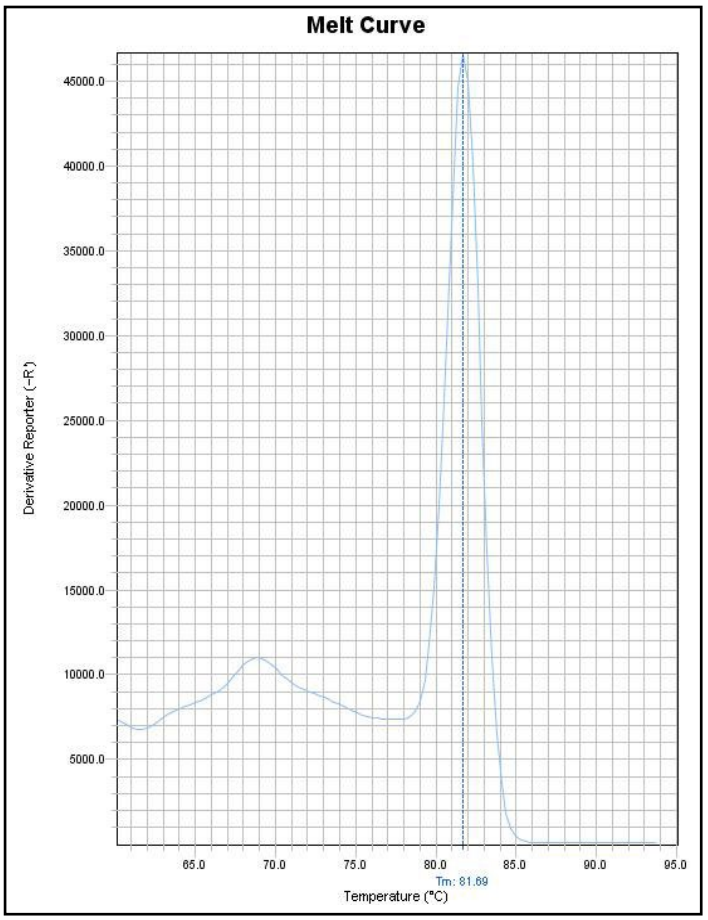
Viral RNA was extracted from lentivirus and cDNA was generated from RT. The viral RNA samples (diluted 100 folds) and the lentiviral RNA STD1 and STD2 are subjected to qRT-PCR to determine threshold cycle (Ct) values. Real-time PCR was processed using lentivirus specific primers. With Ct values, the titers of lentivirus were determined by our lenti-titer calculator.




| | |
|---|---|
| **Block Type** | 48well |
| **Chemistry** | SYBR_GREEN |
| **Experiment Run End Time** | 05/17/2016 13:20 |
| **Instrument Type** | ABI Step one |
| **Passive Reference** | ROX |

| **Sample Name** | **Lenti-III-mir-Off Control Virus** | **STD1** | **STD2** |
|---|---|---|---|
| Ct Value | 20.38 | 15.23 | 18.56 |




Titer of **Lenti-III-mir-Off Control Virus** =

$[5x10^7/2^{3(Ctx-Ct1)/(Ct2-Ct1)}] \times 100 =$ **$2.01 \times 10^8$ IU/ml**

Ctx: Ct value of sample, Ct1: Ct value of STD1, Ct2: Ct value of STD2.

(Note: the titer equation was multiplied by 100 to account for the dilution of the lentivirus sample)