Supplementary Material

Formula for the estimation of viral copy number

Copy no. can be calculated by using the formula:

$$Copy\ No./\mu L\ of\ sample = \frac{Conc.\ of\ Plasmid\ DNA\ \left(gm.\mu L^{-1}\right)\ \times\ Avogadro\ No}{Molecular\ wt.\ of\ Plasmid}$$

$$
\begin{aligned}
Molecular\ wt.\ of\ Plasmid &= Mol.Wt.\ of\ pGEM-T\ Easy\ Vector\ +\ Mol.Wt.\ of\ NSs\ gene \\
&= \left(Total\ no.\ of\ bases\right)\ \times\ Mol.Wt.\ of\ one\ base\ \times\ No.\ of\ DNA\ strands \\
&= (3015bp\ +\ 161bp) \times\ 330\ \times\ 2 \\
&= 2,096,160\ g
\end{aligned}
$$

$$
\begin{aligned}
Conc.\ of\ Plasmid\ &=\ X\ ng.\mu L^{-1} \\
&=\ X\ \times\ 10^{-9}\ g.\mu L^{-1}
\end{aligned}
$$

$$Copy\ No./\mu L\ of\ sample = \frac{X\ \times\ 10^{-9}\left(gm.\mu L\right)^{-1}\ \times\ 6.023\ \times\ 10^{23}}{2,096,160\ g}$$