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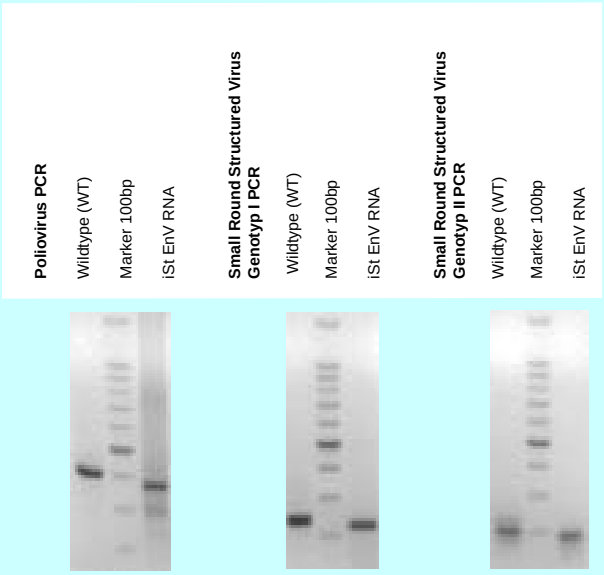
Characterization of the internal Standard for enteric viruses (iSt EnV)

Product lenght after PCR and gelelectrophoresis

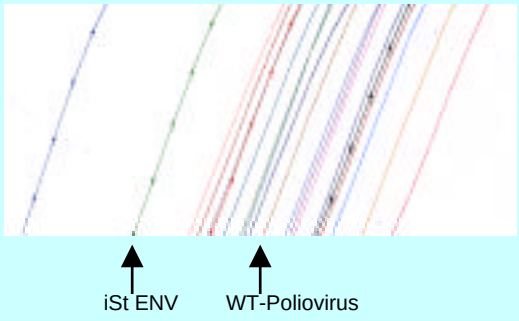


PCR product length:

EV Polio Sabin	**400 bp**
EV PCR iSt EnV RNA	**370 bp**
SRSI WT isolate	**241 bp**
SRSI PCR iSt EnV RNA	**221 bp**
SRSII WT isolate	**203 bp**
SRSII PCR iSt EnV RNA	**184 bp**

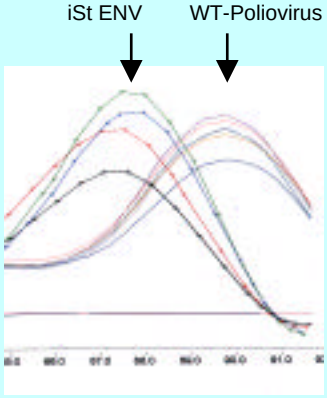
Amplifiability

Poliovirussystem:
The steepness of the amplification of the iSt EnV is equal to the one of WT Poliovirus.



Melting Curve

Poliovirussystem:
The WT Poliovirus and the iSt EnV are distinguishable. They differ in 2.5°C in the meltingcurve analysis after running a SYBRgreen protocol.



Calibration

Poliovirus Sabin = **iSt EnV DNA-Panel** = **iSt EnV RNA**

RNA isolation → RT → PCR

RNA isolation → RT → PCR

Calibration result for specific Lot

iSt EnV RNA Lot: 150707
1µl E-5 = 15‘900 +/- 6‘300 $TCID_{50}$
(interval of confidence 2SD = 95%)