

**An assay for detection of nucleotide substitutions in genomes of sabin oral poliovirus vaccine viruses.**

ICMR is seeking potential agencies interested for third party validation of the assay to bring this technology to next level.

**Brief details about this technology:**

A simple and rapid multiplex Single Nucleotide Polymorphism (SNP) assay is developed for each poliovirus serotype for detecting all the attenuating sites.

**Salient Technical Feature:**

- New and novel primers were designed in-house for the SNP assay of attenuating sites for Sabin poliovirus type 1, 2 and 3 strains serotyped poliovirus.
- The assay is based on multiplexed reverse transcription PCR.

**Application:** The assay is capable for large-scale screening of Sabin OPV strains isolated from any source such as: acute flaccid paralysis cases, vaccine derived polioviruses and environmental samples for reversion mutations. The assay can be further expanded to include additional sites using the same principle.

**Present status of the project:** The assay is in use for analysis of attenuating sites of poliovirus isolates at Enterovirus Research Centre, Mumbai.

**Status of Commercialization:**

An Indian patent application and PCT application has been filed. The National phase PCT application is filed in China and Brazil.