

Diagnostic test for *Chlamydia trachomatis*

Salient Features of the Technology:-

- This PCR based diagnostic method is quite fast, economic and reliable.
- 3rd party validation has been done with 100% sensitivity and specificity.
- The method uses cervical swab specimens (with adequate cells for processing) for diagnosis of *Chlamydia trachomatis* infection.
- Steps involved are DNA extraction, PCR using supplied reagents, Agarose (2%) Gel Electrophoresis for detection of the amplified band of 200bp.
- Presence of 200bp amplified product in 2% Agarose gel indicates that the specimen is positive for *Chlamydia trachomatis* infection.
- DNA extraction can be done using a provided protocol or using any commercially available DNA extraction kit.
- PCR takes only 2 hours and PCR reagents are quite stable at different temperatures. Instrument required is a Thermal Cycler (for PCR), Horizontal gel electrophoresis apparatus, power pack and UV Trans-illuminator.
- This assay is of immense importance for women's reproductive health.
- Training (One demonstration) is required for untrained person; otherwise trained person can follow the instruction to do the test.
- An Indian patent application has been filed.
- This technology has been developed by NIRRH, Mumbai (an ICMR Institute).