

**Dr. B.R. Ambedkar Center for Biomedical Research
University of Delhi
Delhi – 110007**

MOU between University of Delhi and Deos Lab Private Limited

Date 07.04.2021

Today IoE, University of Delhi signed an MOU with Deos Labs Pvt Ltd. to develop futuristic diagnostic technology of 'LAB ON CHIP' (LoC). The laboratory of Prof Daman Saluja at ACBR and DSPH, IoE developed several diagnostic assays including diagnosis of SARS-CoV2. Their invention provides a novel and complete point of care solution for the diagnosis of COVID-19 infection at the site of sample collection. The present invention has been optimized for every step right from sample collection to RNA extraction, subsequent cDNA synthesis followed by amplification of cDNA that is single step RT-PCR on the CHIP. The shelf life of the diagnostic LoC at 4°C for several months reduces the dependence on deep freezers and big machines of qRT-PCR and hence, reduces the risk of wastage and make the assay inexpensive, robust and require minimum infrastructure and can be carried out by a semi-trained person. Moreover, our lysis buffer renders the sample non-infectious as soon as the Nasopharyngeal swab is added to it such that it makes transportation, storage and working with sample much safer. Lab-on Chip platform provide the scope of developing several new diagnostic tests such as fever CHIP, leukemia CHIP, STD CHIP, blood related diseases and many more that can be performed at the site of care by being portable and handy. Such diagnostic assays can be carried out at airports, offices, VIP areas as the turn around time from the time of collection of sample to results is about one hour.

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