COVID-19 3D Printed Swabs and Test Kit CHECKLIST

COVID-19 3D Print settings and resin protocol

AWAITING PROTOCAL DR. GRANT

COVID-19 3D Printed Swab Cleaning Protocol (Unsterile Clean Environment)

- ☐ 5 minute clean wash with <90% isopropyl alcohol (ultrasonic agitation preferred)
- ☐ 5 minutes wash with new clean alcohol <90% using (ultrasonic agitation preferred)
- ☐ Convection dry at 37C for 30 minutes

COVID-19 3D Printed Swab Curing Protocol (Unsterile Clean Environment)

- ☐ Cure in UV curing box at 100% power capacity for 15 minutes
- ☐ Max upper temp limit set to 60C

COVID-19 3D Printed Swab Packaging Protocol (Unsterile Clean Environment)

- ☐ Using nitrile gloved hands package in sterilization pouch for sterilization procedure

ETO Sterilization protocol (Sterile, Clean Environment)

- ☐ Preconditioning and humidification
- ☐ Gas introduction
- ☐ Exposure
- ☐ Evacuation
- ☐ Air washes

Viral Transport Media Protocol (utilizing CDC guidelines) (Sterile, Clean Environment)

From the WHO 2006 guidelines here is an alternative to commercial VTM:

A suitable VTM for use in collecting throat and nasal swabs from human patients is prepared as follows:

- ☐ Add 10g veal infusion broth and 2g bovine albumin fraction V to sterile distilled water (to 400 ml).
- ☐ Add 0.8 ml gentamicin sulfate solution (50 mg/ml) and 3.2 ml amphotericin B (250 µg/ml)
- ☐ Sterilize by filtration.

COVID 19 Test Kit Assembly Protocol (Sterile, Clean Environment)

- ☐ See attached SOP (COVID-19 Sample Collection Kit Assembly SOP.pdf)

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