

ANTIMICROBIAL ASSAY- REPORT

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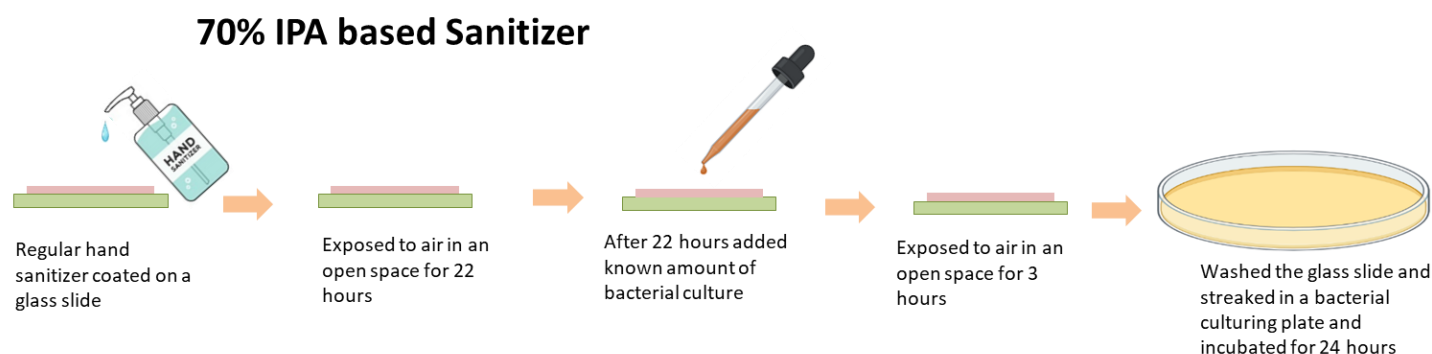
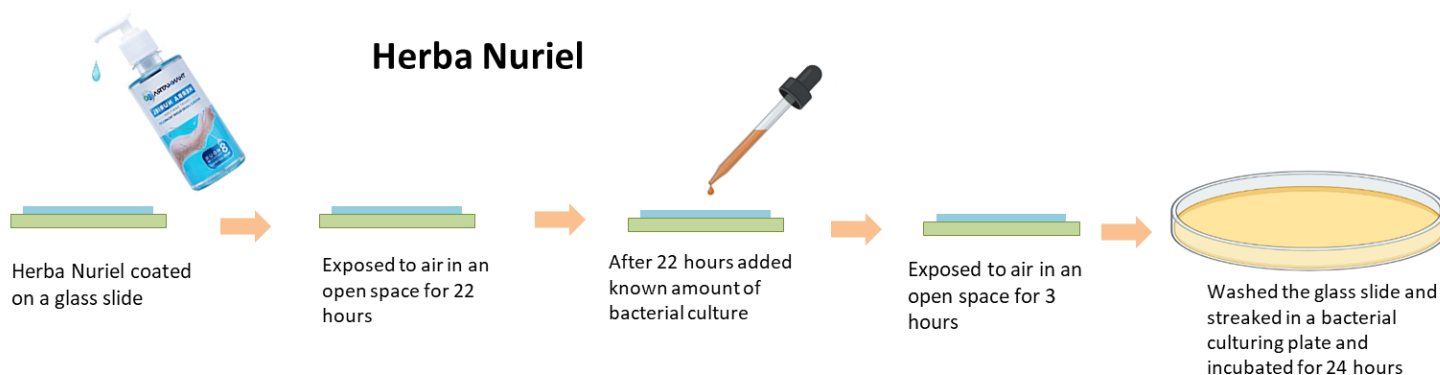
Doc No	Protocol No	Date	Sample
MB/040820/01	TM/MB/01-01	04-08-2020	HERBA NURIEL

AIM

To check the long lasting bactericidal activity (24 hour) of Herba Nuriel Smart Sanitizer in gram positive and gram negative bacteria.

PROCEDURE

Bacterial Strains	Gram positive bacteria - <i>S. aureus</i> (SA113) Gram negative bacteria- <i>E.coli</i>
Method	Spread plate method
Culture medium used	Muller Hinton agar



- A sterile round glass cover slip having 1 cm diameter was dipped into the freshly prepared Herba Nuriel formulation.
- Ensured proper coating of the formulation over the cover slip.
- The coated cover slips were kept in a sterile metallic stand with open surface and dried at room temperature
- After 22 hours of exposure, the coated cover slip was taken and dropped known amount (10µl) of bacterial culture (The OD value microbial culture was adjusted to 0.5 mcFarland standard).
- The cover slips again exposed to open surface for 3 hours.

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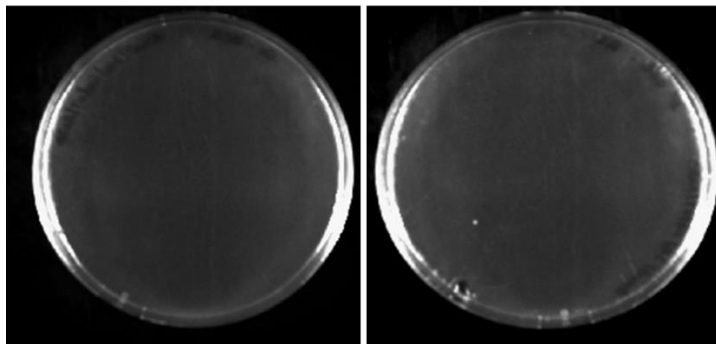
- After 3 hours, added 100 µl sterile water on top of the coated cover slips and eluted the coated portion (using a sterile cotton swab) where the microbial culture added.
- The eluted content was plated in Muller Hinton agar medium and incubated over-night.

Control

- A sterile glass cover slip was taken coated with 70% IPA based sanitizer
- Added the same amount of bacterial culture which added in the test sample
- Placed in an open surface for 3 hours, followed by eluted the content (using a sterile cotton swab) by adding 100 µl sterile distilled water
- The eluted content was plated in Muller Hinton agar medium and incubated over-night.

RESULTS

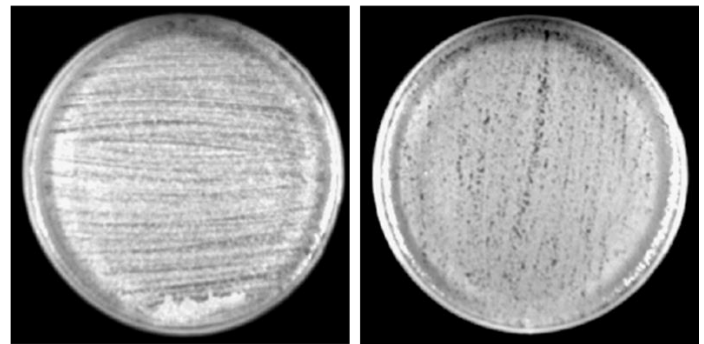
HERBA NURIEL



Gram Positive Bacteria
(*S.Aureus*)

Gram Negative Bacteria
(*E.Coli*)

70% IPA BASED SANITIZER



Gram Positive Bacteria
(*S.Aureus*)

Gram Negative Bacteria
(*E.Coli*)