



SOP FOR DECONTAMINATION & DISPOSAL OF MICROBIOLOGICAL WASTE

1.0 OBJECTIVE:

1.1 To lay down the Procedure for Decontamination & Disposal of microbiological waste.

2.0 SCOPE:

2.1 This procedure is applicable for Microbiology Laboratory.

3.0 RESPONSIBILITY:

3.1 Lab-assistant is responsible for cleaning of used petri plates, test tubes and other glassware with culture media and microorganisms.

3.2 Microbiologist is responsible for operation of vertical autoclave and ensuring the cleanliness of glassware.

4.0 ACCOUNTABILITY:

4.1 Head Microbiology

5.0 EHS CONSIDERATIONS:

5.1 Culture media petri plates and test tubes shall be handled carefully with gloved hands and nose mask as infection may occur.

5.2 Used culture media shall be decontaminated by using vertical autoclave before hand over to person who takes the waste for disposal.

5.3 Decontamination shall be done with validated procedure using vertical autoclave before disposal.

6.0 PROCEDURE:

6.1 Wear the nose mask and hand gloves. Collect and transfer all used microbiological culture media, cultures and contaminated glass wares to the washing area.

6.2 Check for microbial growth and if there is no growth, collect the Liquid media and Solid media in separated media disposal bags with the help of spatula.

6.3 Petriplates, glass tubes and glassware having microbial growth shall first autoclaved, then decontamination shall be performed. Media shall be collected in the media disposal bags.

6.4 Add a disinfectant solution 20ml (except for IPA 70%) onto the collected waste media and close the bag with the help of an autoclavable cable tie.

6.5 Simultaneously disinfectant solution shall be added to the used glassware and place all the contaminated glassware in a SS container.

6.6 Leave the waste media and glass wares for half an hour at room temperature to facilitate the reaction of disinfectant solution.

6.7 Transfer the waste media and glassware to autoclave along with autoclave chemical indicator strip



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- 6.8 Load the media disposal Bag and SS container in the autoclave along with the chemical indicator strip & deodorizer pearls.
- 6.9 Run the cycle as per the SOP “Operation of Vertical Autoclave”.
- 6.10 Decontaminated culture media shall be sent for disposal to the person who comes for collecting the microbiological waste.
- 6.11 Glassware shall be cleaned with purified water.
- 6.12 Record the details in the microbiological waste decontamination record as per annexure name with format no. SOP.

7.0 DEFINITIONS AND ABBREVIATIONS:

- 7.1 IPA: Isopropyl alcohol

8.0 REFERENCE:

- 8.1 NA

9.0 ANNEXURES:

- 9.1 Annexure I: SOP for Microbiological waste Decontamination record.

10.0 DISTRIBUTION DETAILS:

- 10.1 Controlled copy of this SOP shall be distributed to Quality Assurance and Microbiology department.

11.0 REVISION HISTORY:

Supersedes SOP No.	Change Control No.	Reason for revision

