


 INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA	DOCUMENT	
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DISPOSAL OF LMO EXPOSED DURING UNINTENTIONAL RELEASE AND SPILLAGE		


DISPOSAL OF LIVING MODIFIED ORGANISM (LMO) EXPOSED DURING UNINTENTIONAL RELEASE AND SPILLAGE

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REVISION HISTORY

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1. OBJECTIVE

The purpose of this procedure is to ensure the safe disposal of living modified organism (LMO) exposed during unintentional release is removed effectively to protect human beings, animals and the environment.

2. SCOPE

This SOP covers all procedures involving the disposal of LMO exposed during the unintentional release of LMO activities at the Kulliyyah of Science.


3. DEFINITION

1. IIUM - International Islamic University Malaysia
2. KOS - Kulliyyah of Science
3. IBBC - Institutional Biosafety and Biosecurity Committee
4. SOP - Standard Operating Procedure
5. SO - Science Officer
6. LMO - Living Modified Organism
7. PPE - Personal Protective Equipment
8. EQSWR - Environmental Quality (Scheduled Wastes)

Regulation 2005

4. PREREQUISITES

- 4.1 All laboratory users handling the disposal of LMO exposed during unintentional release are required to understand and adhere to the procedures outlined. They must also wear suitable personal protective equipment (PPE) such as covered shoes, a lab coat, rubber gloves, masks and goggles (when required).

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Cross-reference with IIUM-KOS-SOP-40: Personal Protective Equipment Management

5. RESPONSIBILITIES

- 5.1 All laboratory users shall be responsible to comply with this standard operating procedure.

6. PROCEDURES


The priority of LMO spill clean-up is the affected personnel, then the area.

6.1 Affected person:

- 6.1.1 If you are exposed, immediately remove contaminated clothing and other protective gear, and wash the affected area(s) with soap and water. Spills involving microorganisms require BL-1 treatment.

6.2 Affected area:

- 6.2.1 Alert lab officers and people in the immediate vicinity.
- 6.2.2 Put on suitable personal protective equipment (PPE).
- 6.2.3 Stop the spillage by handling the root cause e.g : broken container, mishandling.
- 6.2.4 Contain the spillage: cover and surround the affected area twice the spill's size with spill absorbent pillow/towel/tissue.
- 6.2.5 Disinfect the spill: allow a 20-minute contact period with the disinfectant.
- 6.2.6 Wipe down any contaminated stationary equipment or furniture with disinfectant.
- 6.2.7 Clean up the spill: use forceps, tongs, or a broom to clean up, following scheduled waste disposal guidelines.
- 6.2.8 Decontaminate reusable clean-up items and other reusable equipment via autoclaving or chemical treatment.

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6.2.9 Wash hands thoroughly after the clean-up procedures.

6.2.10 Inform the laboratory personnel when the clean-up has been completed.

6.2.11 The debris (disposable) from the clean-up procedure shall be disposed as biohazard waste / clinical wastes and shall be handled as per EQSWR 2005

Cross-reference with IIUM-KOS-SOP-18: Schedule Waste Management

7. REFERENCE

7.1 Biosafety, D. O. (2010). *Biosafety Guidelines Contained Use Activity of Living Modified Organism*. Putrajaya, Malaysia: The Ministry of Natural Resources and Environment Malaysia.

7.2 IIUM-KOS-SOP-18: Scheduled Waste Management

7.3 IIUM-KOS-SOP-40: Personal Protective Equipment Management

8. APPENDIX

N/A.