



BIOGENIX

LABORATORY WASTE MANAGEMENT

NAME		DESIGNATION	SIGNATURE	DATE
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LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 2 of 11

REVIEW DATE: 30/06/2022

1. TABLE OF CONTENT

1. TABLE OF CONTENT.....	2
2 REVISION HISTORY.....	3
3 REVIEW HISTORY.....	4
4 POLICY STATEMENT.....	5
5 PURPOSE	5
6 SCOPE.....	6
7 DEFINITIONS.....	6
8 ACRONYMS.....	6
9 RESPONSIBILITIES.....	6
10 PROCEDURE.....	6
11 CROSS REFERENCE	10
12 RELEVANT DOCUMENTS & RECORDS	10





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 3 of 11

REVIEW DATE: 30/06/2022

2 REVISION HISTORY

#	Version	Date	Changes Made by	Reason for Changes	Clause Changed
1	1.0				





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 4 of 11

REVIEW DATE: 30/06/2022

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LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 5 of 11

REVIEW DATE: 30/06/2022

4 POLICY STATEMENT:

- 4.1** This policy outlines the management of laboratory waste which should be followed by all healthcare staff of Biogenix Laboratory.
- 4.2** The segregation, transportation and storage of all types of laboratory wastes is as per the regulation of DOH and Centre of Waste Management Abu Dhabi.
- 4.3** Biogenix Laboratory has a good waste management practices by segregating the waste as hazardous (Medical waste) and non-hazardous (General waste) which is color coded.
- 4.4** Biogenix Laboratory provides enough resources like materials and workplaces for the waste management within the facility.
- 4.5** All personnel who are involved will be trained on the waste management. The record of the training will be maintained in the Laboratory.
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- 4.7** General waste and Medical wastes are stored separately which prevents the access from the public. Both the General and Medical waste will be collected by a registered environmental service provider in every 24 hrs.
- 4.8** Any exposure, spills and other incidents are related to handling of infectious waste must be duly reported through “Incident Report”

5 PURPOSE

- 5.1** To give clear direction for the laboratory staff about the segregation, storage, handling, transportation and disposal of medical waste in order to avoid any hazards to the lab personnel or environment.
- 5.2** Gives guidance on different categories of medical waste and color codes.





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 6 of 11

REVIEW DATE: 30/06/2022

6 SCOPE

- 6.1** The scope of this policy extends to safe handling and disposal of laboratory waste by all the staffs of Biogenix laboratory.

7 DEFINITIONS

- 7.1** N/A.

8 ACRONYMS

- 8.1** PPE – Personal Protective Equipment

9 RESPONSIBILITIES

- 9.1** Laboratory Director is responsible for compliance with health and safety requirements and implementation of this policy in Biogenix laboratory which includes Molecular Laboratory and Core Laboratory.
- 9.2** Management personnel are responsible for the continuous supply of resources for proper management of laboratory waste.
- 9.3** Biogenix laboratory staff are responsible to comply with the regulations and its requirements as defined in this policy and in corresponding laboratory specific training.
- 9.4** Infection control personnel responsible for assessing the risk periodically, monitoring the practice and provide continuous training.

10 PROCEDURE

- 10.1** Standard precautions are set of infection control practices used to minimize or prevent transmission of diseases that can be acquired by contact with infectious samples.





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 7 of 11

REVIEW DATE: 30/06/2022

10.2 Types of Medical Waste:

10.2.1 Medical Waste (Biohazard/ infectious Waste)

10.2.2 General Waste (Non-hazardous/ Non-infectious Waste)

10.3 Categories of Medical Waste:

10.3.1 Group "A" – Anatomical Waste

10.3.1.1 Biogenix Laboratory doesn't deal with human tissues. So, this type of waste segregation not applicable.

10.3.2 Group "B": Sharps Waste:

10.3.2.1 Sharps include Broken Glass, pipette tips etc.

10.3.2.2 These types of waste will be disposed of in a Heavy-duty thick polyethylene rigid, leak-proof, and puncture resistant yellow containers.

10.3.2.3 This is labeled with a warning label (Sharps & Biohazard for Incineration Only) and are strong enough for handling, storage and transportation.

10.3.2.4 Don't fill this container more than 75% of its capacity.

10.3.3 Group "C": Infectious Waste:

10.3.3.1 **Group "C1"**: Waste to be sterilized before disposal (Autoclavable): Includes Covid-19 samples (swabs with transport media), blood and body fluids, Microbiological culture plates, all wastes generated in Sample Inactivation & Extraction Room, contaminated specimen transporting bag, other contaminated waste from the machine etc.

10.3.3.1.1 These types of waste will be disposed of in a **RED BAG** Labeled as Medical waste – to be sterilized before disposal.

10.3.3.1.2 Don't fill these bags more than 65% of its capacity.

10.3.3.1.3 The waste items will subject to autoclave prior disposal. After autoclave this will be disposed in **RED BAG**.





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 8 of 11

REVIEW DATE: 30/06/2022

10.3.3.1.4 Note: For the detailed operation of autoclave please refer **BG/PP/INF/0** titled Operation & Maintenance of Autoclave.

10.3.3.2 **Group “C2”:** Remaining waste in Laboratory which is not included in autoclavable group C such as used PPEs (Reagent Preparation Room & qPCR Room of Molecular Laboratory, Core Laboratory, other common area of the biogenix laboratory), urine and stool samples, specimen transport bag received in core laboratory can be disposed in **RED BAG** marked as Medical waste – For incineration Only.

10.3.3.3 The bag should not be filled more than 65% of its capacity.

10.3.4 **Group “D”:** Chemical Waste:

10.3.4.1 All unused, partially used and expired reagent bottles used for diagnostic tests are discarded in **YELLOW POLYETHYLENE BAG**.

10.3.4.2 The bag should not be filled more than 65% of its capacity.

10.4 General Waste:

10.4.1 General wastes include, but not limited to, plastic covers, containers, boxes, papers and other consumables which are soiled with infectious substances.

10.4.2 All general waste from Reagent Preparation Rooms & qPCR Room of Molecular laboratory, Core Laboratory, Office, Toilet, Common areas will be collected in **BLACK POLYETHYLENE BAGS**.

10.4.3 Note: All wastes generated in Sample Collection and Extraction room considered as medical waste.

10.5 Liquid waste:

10.5.1 The liquid waste generated will be decontaminated prior to disposal by treating with equal volume of 1% sodium hypochlorite solution having 10,000 PPM available chlorine.

10.5.2 Liquid waste will be treated with sodium hypochlorite solution in a ratio of 1:1 and discarded utility sink after giving a contact time of 1-2 minutes.





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 9 of 11

REVIEW DATE: 30/06/2022

10.6 Storage

- 10.6.1 Medical wastes are stored separately is away from the patient care areas and from the public access.
- 10.6.2 The room has enough space to store all medical waste producing in the facility and have facilities like hand washing area, eye wash station, and room thermostat monitors to monitor the temperature.
- 10.6.3 The medical waste storage room has negative pressure ventilation which is monitored continuously.
- 10.6.4 The room has a weighing machine to monitor the weight of each batch of medical wastes taken by the outside vendor and will be recorded in the medical waste log sheet.
- 10.6.5 The room will be locked always to prevent public access.
- 10.6.6 The storage bin should be cleared when it reaches 75% of its capacity
- 10.6.7 The storage should be easily cleanable type.

10.7 Management of Laboratory Waste:

10.7.1 Molecular Laboratory:

- 10.7.1.1 All wastes generated in Sample Collection Room and Extraction room is considered as medical wastes. Before discarding the wastes make sure the bag is sealed properly and 75% Alcohol sprayed outside of the bag.
- 10.7.1.2 All clinical samples are autoclaved before transported to central waste segregation room.
- 10.7.1.3 Other than Sample collection room and Extraction room wastes are segregated according the type i.e. Medical wastes are collected in yellow bag whereas general wastes in black bag.
- 10.7.1.4 Medical wastes in Sample collection room, Extraction room and qPCR room are shifted to central waste segregation room by means of pass box by the technical staff.





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 10 of 11

REVIEW DATE: 30/06/2022

10.7.1.5 Reagent preparation room medical wastes are kept at anteroom of extraction room, which will be later shifted to central waste segregation room by the staff in extraction room.

10.7.1.6 General wastes of reagent preparation room are kept in the Laboratory corridor, which will be taken by housekeeping staff.

10.7.1.7 Laboratory wastes in technical areas are transported to Medical Waste room by means of pass through box at the end of each shift by designated staff.

10.7.1.8 Wastes from General area such as Laboratory corridor, office, toilet and common area are removed and transported by housekeeping staff at regular interval.

10.7.2 Core Laboratory:

10.7.2.1 Laboratory wastes are collected by housekeeping staff at regular interval. Medical wastes are stored in Medical Waste Room where as general wastes are kept in bins located outside the laboratory.

10.7.3 All medical waste of Biogenix Laboratory is treated in accordance with local and federal regulation law Concerning Protection and Development of the Environment.

10.7.4 The waste will be collected by the registered environment service providers with whom the Biogenix Laboratory have contract.

11 CROSS REFERENCE:

- 11.1** DOH Abu Dhabi Policy on Policy for Infection Control in the Health Care Facilities (PPR/HCP/P0010/07).
- 11.2** DOH Abu Dhabi standard on Medical Waste Management in Health Care Facilities PPR/HCP/P0002/07.

12 RELEVANT DOCUMENTS & RECORDS:





LABORATORY WASTE MANAGEMENT

CODE: BG/PP/INF/007

BIOGENIX

VERSION: 1.0

DATE OF EFFECTIVITY: 01/07/2020

PAGE: 11 of 11

REVIEW DATE: 30/06/2022

12.1 N/A

