 Discovery Labs	<b>STANDARD OPERATING PROCEDURE</b>			
	SOP No.:	SOP-PD-042-03	Effective Date:	01.01.2018
	Supersedes:	SOP-PD-042-02	Next Review Date:	31.12.2020
	Department:	Production	Page:	1 of 2
<b>TITLE: OPERATION OF HVD</b>				

**1.0 PURPOSE:**

To describe a procedure for Operation of HVD on reactor.

**2.0 SCOPE:**

This procedure applies to HVD from reactor at Discovery.

**3.0 RESPONSIBILITY:**


It is the responsibility of the person operating the HVD on Reactor to follow the procedure as written in the SOP

**4.0 DEFINITIONS:** Nil

**5.0 PROCEDURE :**

- 5.1 Ensure the receiver or Measuring tank is empty which is connected to the reactor / still.
- 5.2 Close the bottom valve and vent valve(s) of the receivers or measuring tank still/reactor.
- 5.3 Open the condenser line valve, close the condenser vent.
- 5.4 Fix the dedicated funnel / hose pipe to charging line and charge the material into the reactor / still.
- 5.5 After charging remove the funnel / hose pipe clean thoroughly and kept a side.
- 5.6 Switch "ON" the oil bath heaters by pressing the push button to attain required temperature as per Batch Production Record. Do not increase the temperature rapidly. If temperature increasing rapidly Switch "OFF" the oil bath heaters by pressing the push button to control the temperature.
- 5.7 Open the vacuum valve of the receiver.
- 5.8 Ensure that the equipment is free of leakages.
- 5.9 Close the vacuum valve, after the charging of the material.
- 5.10 When applying vacuum to the receiver:
  - 5.10.1 Ensure that the receiver or measuring tank is empty. If it is not empty, unload the material and close the bottom valve of the receiver.

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5.10.2 Close the vent valve of the receiver or measuring tank.

5.10.3 Open the vacuum line valve slowly.

5.11 Observe the HVD fraction collection into the receiver, And collect the HVD fraction lot wise.

5.12 During Unloading the HVD fraction use Suitable PPE

5.13 Unloading of HVD fraction shall be done in dedicated carboy by maintaining the Nitrogen atmosphere. After unloading container must be well closed condition.

5.13.1 Enter the details in Batch Production Record.

6.0 **FORMATS / ANNEXURE(S):** Nil.

7.0 **CHANGE HISTORY:**

Revision No.	Effective Date	Details of Revision	Ref. CCF No.
00	23.07.2011	New SOP is introduced	----
01	01.06.2014	Revised as per current SOP No system & more clarity	----
02	01.01.2017	Procedure elaborated and SOP format changed	PD-CRF-024/16
03	01.01.2018	SOP format changed make to inline with SOP-QA-001-05.	CCF/GEN/17035

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