




Lab -2 Laboratory equipment

Table 3.1: Equipment used for cell culture and virus isolation

Name of article	Figure	Application
Biosafety cabinet or Laminar flow cabinet		1- Sterile cabinet for virus titration, 2- cell culture, 3- virus cultivation, 4- master mix preparation
Bunsen burner		Sterilization
CO ₂ -Incubator		Incubator for tissue culture flasks

<p>Inverted light microscope</p>		<p>Microscope</p>
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Table 3.2: Equipment used for processing diagnostic samples



Name of article	Figure	Application
<p>Centrifuge</p>		<p>Centrifugation</p>
<p>Branson Sonifier</p>		<p>Disruption of cell membranes and to release viruses</p>

Table 3.3: Equipment used for the extraction of viral RNA/ RT-PCR

Name of article	Figure	Application
Centrifuge		centrifugation
Vortex Genie		Vortexer, shaking
Dry Bath Incubator		Heating block





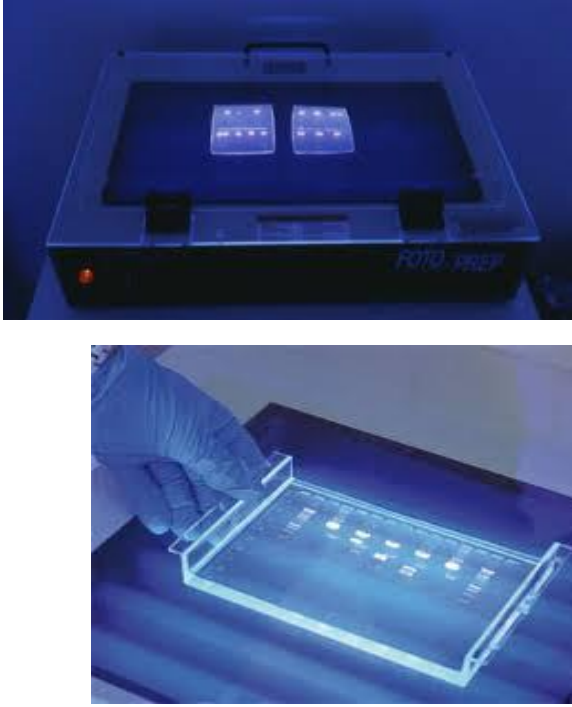
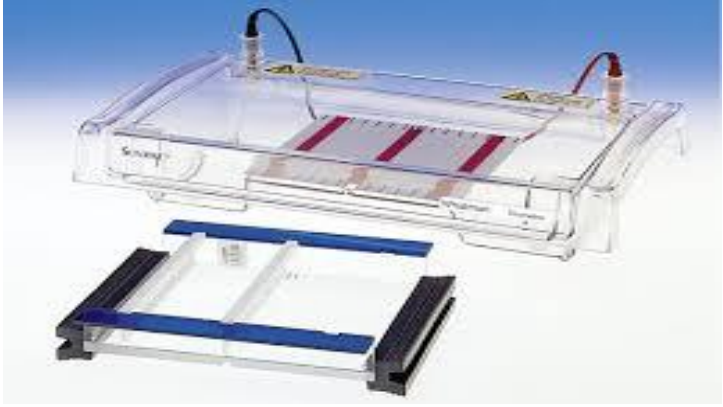
Peqlab Primus		Thermal cycler
Doppio Thermocycler		Thermal cycler
Mastercycler Gradient		Thermal cycler

Table 3.4: Equipment used for gel electrophoresis/ Gel extraction

Name of article	Figures	Application
Consort 443, Electrophoresis		Separation of DNA

<p>EC-105, Electrophoresis</p>	 <p>The image shows a white and red EC-105 electrophoresis power supply. It features a central analog meter, several control knobs and switches, and a power switch on the right side. The model number 'OSP-105' is printed on the top right of the device.</p>	<p>Power supply</p>
<p>UV- transilluminator</p>	 <p>The image shows a UV-transilluminator with two gel trays placed inside. The device is illuminated with a blue light, making the DNA bands in the gels visible. The brand name 'FOTD' is visible on the front of the unit. A second image below shows a hand holding a gel tray over the transilluminator, highlighting the glowing bands.</p>	<p>Display DNA bands</p>
<p>Gel chamber</p>	 <p>The image shows a clear plastic gel chamber with a white gel tray inside. Two red electrodes are connected to the top of the chamber. Below the chamber, a separate white gel tray with blue handles is shown, which is used to hold the gel during electrophoresis.</p>	<p>Gel electrophoresis for seperation of DNA</p>

3.2. Cell lines

Table 3.5: Description of cell lines used in experimental trials

Cell type	Reference No.	Source	Description
Viper heart cells (VH2)	ATCC, CCL-140	American Type Culture Collection USA	Established from the heart of a female Russells Viper (<i>Vipera russelli</i>)
Iguana heart cells (IgH2)	ATCC, CCL-108	American Type Culture Collection USA	Established from the heart of a green iguana (<i>Iguana iguana</i>)

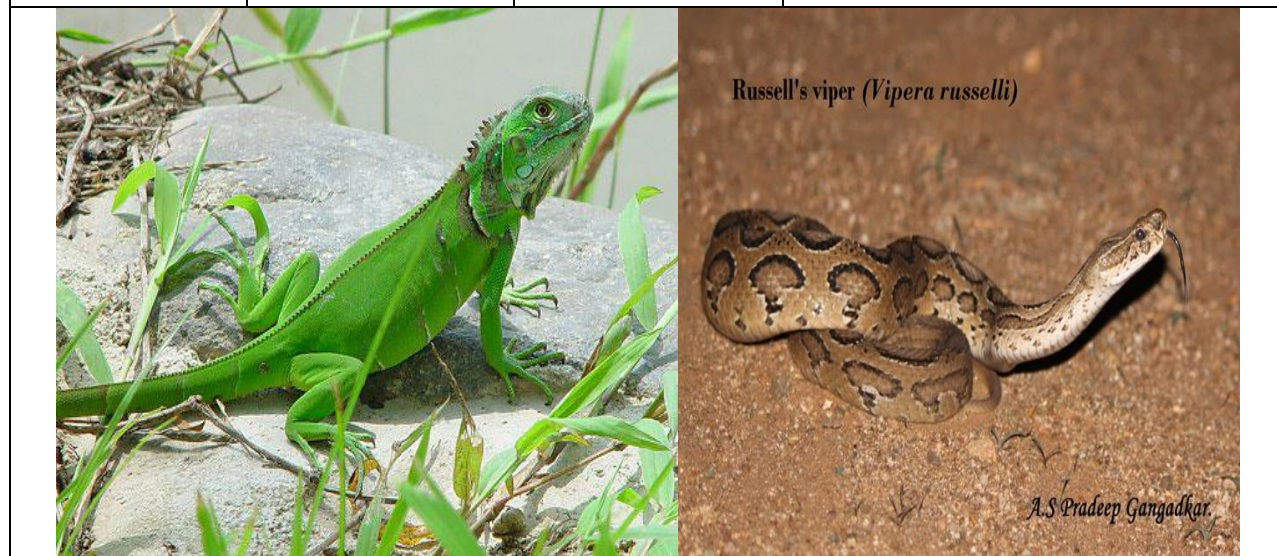






Table 3.6: Other materials used for different applications

Name of article	Figure	application
BD Falcon with vented cap (75, 50 cm ³),		Tissue Culture Flasks

		
<p>30mm diameter Cellstar®</p>		<p>Tissue culture dishes</p>
<p>BD Falcon 15 ml polypropylene conical tubes</p>		<p>Sample preparation</p>

1.5 ml Reaction tubes



RNA preparation

1000, 200, 10 μ l microPipettes



RNA preparation