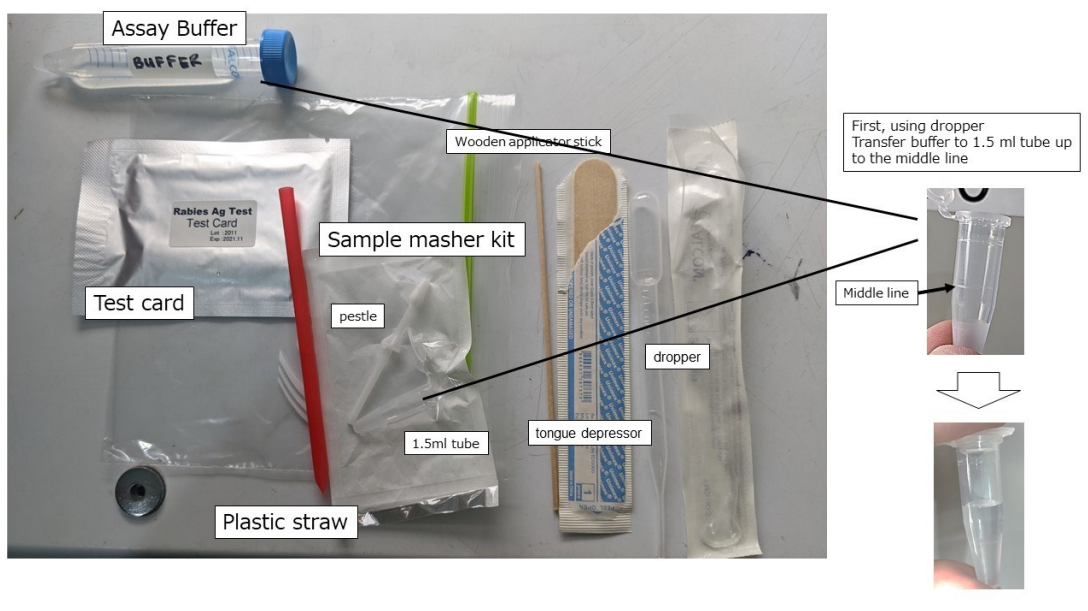


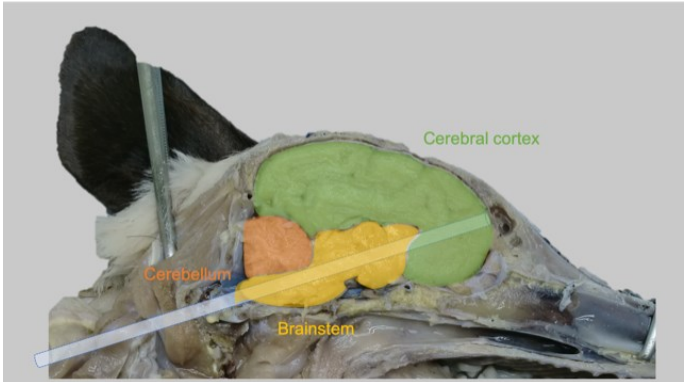

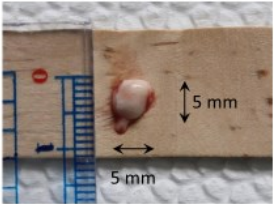



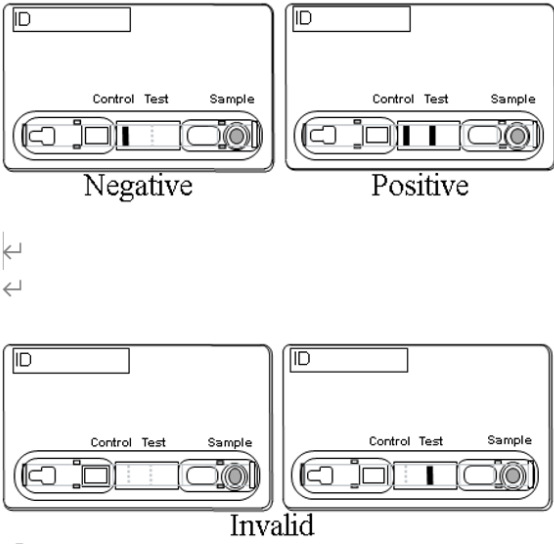


## MAMNUAL OF STRAW SAMPLING METHOD AND LFD TEST

<p><b>MATERIALS NEEDED FOR STRAW SAMPLING</b></p>	<ul style="list-style-type: none"> <li>✓ Scalpel</li> <li>✓ Scalpel blade</li> <li>✓ Scissors</li> <li>✓ Forceps</li> <li>✓ Plastic straw</li> <li>✓ Wooden applicator stick</li> <li>✓ Wooden Tongue depressor</li> <li>✓ Rabies Ag test kits (including Test card, Assay Buffer, Sample masher kit (1,5ml tube and pestle), Dropper)</li> </ul>
<p><b>PROCEDURE</b></p>	
<p><b>STEP 1</b></p>	<p>Prepare all necessary materials          Transfer assay buffer to 1.5ml tube (until middle line)          Write necessary information to LFD test card (sample ID, date of test etc)</p> 
<p><b>STEP 2.</b></p>	<p>Wear the appropriate PPE (Personal Protective Equipment)</p>

<p><b>STEP3</b></p>	<p>Fix the animal's head so as not to get injured during the work Remove the muscle around the spinal cord and expose the foramen magnum</p> 
<p><b>STEP 4</b></p>	<p>(To take brain sample) Insert the straw into the foramen magnum with a slight twisting movement towards one of the eyes . This will allow samples to be taken from the medulla oblongata, the base of the cerebellum, the hippocampus (Ammon's horn) and the cerebral cortex.</p> <p>Before withdrawing the straw, pinch it between the fingers in order to prevent brain tissues from escaping in the straw.</p> <p>Sagittal section demonstrating the insertion of the straw</p>  

<p><b>STEP 5</b></p>	<p>After withdrawing the straw, extract the content by pushing a wooden applicator stick in the straw to a tongue depressor or container</p>	
<p><b>STEP 6</b></p>	<p>Using plain forceps, transfer about 5mm*5mm of the brain sample to a 1.5ml tube filled with Assay Buffer.</p>	 <p><b>Brain sample</b></p> 

<p><b>STEP 7</b></p>	<p>Homogenize completely using the pestle (sample masher)</p> 
<p><b>STEP 8</b></p>	<p>Using a dropper (or Pipette), apply 3 drops (100uL) of the homogenized sample to the test card.</p> 
<p><b>STEP 9</b></p>	<p>Read result after 10-15 min. Interpretation: Control line only is a negative result. Appearance of both test line and control line is a positive result. Appearance of test line only is invalid; no appearance of both lines is also invalid</p> 
<p><b>REFERENCE</b></p>	<p>Mauti S, Léchenne M, Naissengar S, Traoré A, Kallo V, Kouakou C, et al. Field Postmortem Rabies Rapid Immunochromatographic Diagnostic Test for Resource-Limited Settings with Further Molecular Applications. <i>JoVE</i>. 2020; 60008. doi:10.3791/60008</p>