

### TiLVD diagnosis: Supplies & datasheet

<b>Lab work</b>	<b>Equipment, supplies, data sheets</b>	
External gross signs examination (Level I)	<input type="checkbox"/> data sheet recording any abnormalities in behavior, body, skin, gills, eyes	<input type="checkbox"/> camera <input type="checkbox"/> dissecting microscope <input type="checkbox"/> Compound microscope <input type="checkbox"/> microscope slides <input type="checkbox"/> coverslip
<b>External examination data sheet</b>		
1. behavior (normal, gasping, flashing, crowding in the water inlet/outlet, lethargic, swim erratically, etc).		
_____		
2. body appearance (normal, swelling, color change, etc)		
_____		
3. skin (normal, white spots, red spots, hemorrhagic, loss of scales, erosion, ulcer, etc.)		
_____		
4. gills (normal, pale, tissue losses, etc)		
_____		
5. eyes (normal, exophthalmos, shrinking, cataracts, etc)		
_____		
6. photo/video: _____		
7. skin scraping results: _____		
8. gill scraping results: _____		
Necropsy	<input type="checkbox"/> fish nets <input type="checkbox"/> buckets <input type="checkbox"/> anesthesia chemicals <input type="checkbox"/> 95% ethanol <input type="checkbox"/> sample jars, tubes or bags <input type="checkbox"/> sample ID labels <input type="checkbox"/> measuring type/balance <input type="checkbox"/> Permanent markers	<input type="checkbox"/> laboratory gowns/latex gloves/mask <input type="checkbox"/> dissecting kit (scissors, forceps, scalpels, etc) <input type="checkbox"/> dissecting tray <input type="checkbox"/> flame <input type="checkbox"/> Sampling sticks/disposable razor blades <input type="checkbox"/> paper towel <input type="checkbox"/> trash bags
Internal gross signs examination (Level I)	<input type="checkbox"/> data sheet to record any abnormalities in the internal organs	<input type="checkbox"/> camera <input type="checkbox"/> dissecting microscope <input type="checkbox"/> compound microscope <input type="checkbox"/> microscope slides <input type="checkbox"/> coverslips
<b>Internal examination data sheet</b>		
1. visceral cavity (normal, acites, hemorrhage, etc)		
_____		
2. Liver (normal, green, pale, watery, nodules, etc)		
_____		
3. stomach (normal, empty, etc)		
_____		
4. intestine (normal, empty, hemorrhage, fluid accumulation, etc)		

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5. spleen (normal, swollen, etc)		
6. swimming bladder (normal, hemorrhage, etc)		
6. kidney (normal, nodules, etc)		
7. heart (normal, pale, etc)		
8. brain (normal, redness, etc)		
9. gills (normal, hyperplasia, etc)		
10. other tissues		
11. photos/video		
Histology (Level II)	<input type="checkbox"/> neutral buffered formalin (NBF) <input type="checkbox"/> fume hood <input type="checkbox"/> tissue processing machine <input type="checkbox"/> tissue embedding machine <input type="checkbox"/> microtome <input type="checkbox"/> staining solutions	<input type="checkbox"/> compound microscope <input type="checkbox"/> microscope slides <input type="checkbox"/> coverslips
PCR-based (level III)	<b>RNA extraction</b> <input type="checkbox"/> RNA extraction kit <input type="checkbox"/> Microfuge <input type="checkbox"/> pipettors (50-, 1000- µl) <input type="checkbox"/> filtered pipet tips <input type="checkbox"/> Eppendorf tubes <input type="checkbox"/> PCR tubes <input type="checkbox"/> test tubes racks	<b>Conventional RT-PCR</b> <input type="checkbox"/> PCR machine <input type="checkbox"/> Gel electrophoresis apparatus <input type="checkbox"/> Gel imaging system <input type="checkbox"/> Pipettors <input type="checkbox"/> RT-PCR enzymes kit <input type="checkbox"/> TiLV primers <input type="checkbox"/> electrophoresis buffer, molecular marker, gel loading dye, ethidium bromide <input type="checkbox"/> positive control plasmid <hr/> <b>RT-qPCR (real-time)</b> <input type="checkbox"/> Real-time PCR system <input type="checkbox"/> RT-qPCR enzymes <input type="checkbox"/> TiLV real-time primers <input type="checkbox"/> positive control plasmid