

Necropsy: Neonatal Calves Sampling Guidelines

The ideal samples for investigation of neonatal calf diseases are those that are collected within 4-8 hours of death, however, any sample is better than none and the lab does not charge based on the number of samples submitted. **Both** fresh and formalin fixed tissues from any gross lesions and the following tissues are recommended for submission:

Organ	Formalin*	Fresh	Size
Organ	Formann	FIESII	
			Fresh Samples
Brain**	Yes	Yes	One cerebral hemisphere
Heart [†]	Yes	No	
Lung [†]	Yes	Yes	4 x 4 x 2 cm
Liver ⁺	Yes	Yes	4 x 4 x 2 cm
Kidney [†]	Yes	Yes	4 x 4 x 2 cm
Spleen ⁺	Yes	Yes	4 x 4 x 2 cm
Mesenteric Lymph Node	Yes	Yes	
Forestomachs	Yes	No	
Abomasum	Yes	Yes	10 cm length
lleum	Yes	Yes	10 - 20 cm length
Jejunum	Yes	Yes	10 - 20 cm length
Spiral Colon	Yes	Yes	10 cm length

^{*} A 2 x 2 x 1 cm piece of tissue from all the organs listed above should be placed in formalin. The ratio should be 9 parts formalin to 1 part tissue for proper fixation. The WVDL recommends using a 16 ounce wide mouthed jar that contains 8 ounces of 10% buffered formalin (Fischer catalog # 23-426-797). Since the formalin jars tend to leak; please place the formalin jar inside a Ziploc® bag.

Shipping Requirements

- Veterinarians should completely fill out the Necropsy Submission Form which includes the age of the animal. An electronic copy is available at www.wvdl.wisc.edu. Click on the Submission and Order Forms link to download the submission form.
- Ideally, the laboratory should receive the samples within 24-36 hours so samples collected n a Friday should be refrigerated and shipped on Monday.
- Package the samples with a sufficient number of ice packs to ensure they remain cold during shipment.
- Check out our special shipping rates here.

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^{**}Fresh and formalin-fixed samples should be collected from animals where the cause of death is not readily explainable or the animals have neurological disease.

⁺Denotes essential tissue for submission.



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