



**Department of Pathology and  
Laboratory Medicine**  
Electron Microscopy Laboratory  
Children's Hospital Colorado  
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## **Instructions for Specimen Submission for Electron Microscopy Examination**

Tissue for conventional transmission electron microscopic examination, energy dispersive x-ray spectroscopy, and most scanning electron microscopic applications is best submitted in glutaraldehyde fixative. Please contact us for additional technical information and/or advice with respect to specimen handling, or for pricing information. Glutaraldehyde fixative and express shipping is provided upon request.

Specimens can be received 24 hours a day, 7 days a week including holidays.

With all specimen submissions please include a completed [Electron Microscopy Request](#) form and place vial in a crush protected biohazard specimen bag.

### **Specimens should be shipped to:**

Department of Pathology and Laboratory Medicine  
Electron Microscopy Laboratory  
Children's Hospital Colorado  
13123 East 16th Avenue  
Aurora, CO 80045

**Whole Tissue:** Submit tissue in glutaraldehyde fixative. If glutaraldehyde fixative is unavailable, formaldehyde fixed wet tissue will generally suffice; and, depending upon circumstances, also paraffin embedded tissue or frozen tissue that has been allowed to thaw in chilled fixative. No refrigeration is required during shipping.

**Cilia Brush or Rhinoprobe:** Submit entire brush or probe into glutaraldehyde preferably with a volume no larger than 4ml. No refrigeration is required during shipping.

**Peripheral Blood:** Collect specimen in a purple or blue (ACD) tube with a minimum volume of 3ml. Send specimen at ambient temperature via overnight express carrier. Do not freeze or refrigerate sample. When possible, please include patient history.

**Hair:** Submit in a labeled container without fixative. No refrigeration is required during shipping.

**Paraffin Block:** Please submit entire paraffin block, if possible with the last cut H&E slide for reference (dotting the area of primary interest). The block and slide will be returned.