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## **Important Sampling and Shipment-Information for Immunophenotyping by Flow Cytometry (FCM), clonality testing by PCR for the Antigen Receptor Rearrangement (PARR) or the c-KIT mutation PCR**

Material for FCM or PARR must be submitted in Phosphate buffered Saline (PBS) with Gentamycin (1.5 mL) in Eppendorf cups. Store the cups in the refrigerator at 4°C until use. Material is provided by us on request!

**FCM:** Analysis requires VIABLE cells for Immunophenotyping to aid classification of lymphoma/leukemia cells. Differentiation between different subtypes is important in terms of prognosis and treatment.

Fine needle aspirates from enlarged lymph nodes can be directly suspended into the phosphate buffered Gentamycin enriched saline in the Eppendorf-cups. Please provide also 2 air dried FNA slides for morphologic evaluation. The samples have to be COOLED during transport and should arrive within 24 hrs. after sampling to give reliable results. Be aware that freezing destroys the cells and no FCM analysis is possible!

We kindly ask for notification (ideally the day before arrival) when samples are sent. Please give us a call +43 1 250 77 6793 or email [zentrallabor@vetmeduni.ac.at](mailto:zentrallabor@vetmeduni.ac.at)

**PARR:** Analysis of lymphoid material for verification of the diagnosis lymphoma in suspicious cases.

For this assay samples can be sent at the same conditions as for FCM. However, for this method it is also possible to send already stained or unstained not cover slipped cytology slides!

The PARR analysis is offered for dogs and cats and performed once per week. All samples arriving until Tuesday 9am will be analysed in this week.

The **c-KIT mutation PCR analysis** is performed, to detect Internal Tandem Duplications, Deletions, Duplications or other mutations in the c-KIT receptor protein. This has impact on prognosis and the therapeutically effectiveness regarding the treatment with Thyrosine kinase inhibitors in canine mast cell tumors. The Exons 8, 9, 11, 13 and 17 are investigated.

For this assay samples can be sent at the same conditions as for FCM. However, for this method it is also possible to send already stained or unstained not cover slipped cytology slides!

The c-KIT PCR mutation analysis is offered for dogs and the TAT is 14 days.

For questions please contact us anytime:

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e-mail: [barbara.ruetgen@vetmeduni.ac.at](mailto:barbara.ruetgen@vetmeduni.ac.at)

For ordering Eppendorf vials for sampling please call:

phone: +43 1 250 77 5110 (Clinical Pathology/Central Laboratory, Reception)

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