

Molecular biological tests

Analysis	Quantity/Material	Pre-analytics/Notes	Reference range	Frequency Test duration	Method
<b>CMV DNA quantitative</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.	lower limit of quantification: <1000 copies / ml upper limit of quantification: > 1 000 000 copies / ml	1x / week as needed	Realtime-PCR
<b>HBV DNA quantitative</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.	lower limit of quantification: <400 copies / ml (<70 IU / ml) upper limit of quantification: > 200 000 000 copies / ml (34 365 000 IU / ml)	1x / week as needed	Realtime-PCR
<b>HBV Genotyping</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		1-2x / week as needed	PCR, NGS
<b>HBV Drug Resistance Test (genotypic)</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		1-2x / week as needed	PCR, NGS

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<b>HCV RNA quantitative</b>	7,5 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.	lower limit of quantification: <12 IU / ml upper limit of quantification: > 100 000 000 IU / ml	1x / week as needed	Realtime-PCR
<b>HCV Genotyping</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		1-2x / week as needed	PCR, sequencing
<b>HCV Drug Resistance Test (genotypic)</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		1-2x / week as needed	PCR, NGS
<b>HIV RNA quantitative</b>	7,5 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.	lower limit of quantification: <40 copies / ml upper limit of quantification: > 10 000 000 copies / ml	daily Mon.-Fri.	Realtime-PCR
<b>HIV Drug Resistance Test (genotypic)</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		1-2x / week as needed	PCR, NGS

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<b>Determination of HIV Coreceptor usage, genotypic (Tropism testing)</b>	3 ml EDTA-blood	Limited stability of the sample. Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		1-2x / week as needed	PCR, NGS
<b>HPV differentiation (high-risk/low-risk)/Typing</b>	Cervical smear, Cervical lavage, urethral smear (♂), other epithelial smears, FFPE-thin sections (10µm)	Limited stability of the sample (except FFPE thin sections). Do not expose sample to heat source and do not freeze. Ship immediately at room temperature. If transport is delayed, store samples at 2-8°C until collection.		2x/week	Multiplex-PCR, MALDI-TOF-MS
<b>Mycobacterium tuberculosis DNA *</b>	FFPE-thin sections (10µm)			as needed	Realtime-PCR
<b>Mycoplasma DNA *</b>	1 ml cell culture supernatant or 1E5 cells from cell culture			as needed 2 days	PCR, gel electrophoresis
<b>SARS-CoV-2-RNA, qualitative</b>	Swab (nasopharyngeal / oropharyngeal), throat lavage water			daily Mon. - Fri., 1 day	Realtime-PCR

**Note:**

Request forms for the analyses are available in the download area of our homepage.