

Referring doctor/ hospital: (Stamp)

Patient: (please complete in BLOCK CAPITALS or printed label)

Name:

First Name:  Date of Birth (dd/mm/yyyy):

Address:

Country:  ZIP Code:  City:

- outpatient
- inpatient
- male
- female
- Invoice to patient

Reference number:  Sample date (dd/mm/yyyy):  Time:  Copy of the results to Dr. med. (HIN-sec Email):

Clinical details (please complete):

- Not available
- Fever
- Diarrhea
- Skin symptoms: \_\_\_\_\_
- Eosinophilic meningitis
- Eosinophilia: absolut \_\_\_\_/µl = \_\_\_\_% Leucocytes
- Symptoms since: \_\_\_\_\_
- Stay abroad:**
- Europe
- Africa
- Asia
- Australia
- North America
- Central America/
- South America
- Oceania
- Country/Region: \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_
- Other: \_\_\_\_\_

**MALARIA EMERGENCY (→ Microscopy) \*\*\* ALWAYS NOTIFY by phone\*\*\***

Registration Malaria emergency:

Mo-Fr (8-17h): 061 284 82 61 (Laboratory)

Sa-Su & other: 061 284 81 44 (Medical doctor)

Rapid diagnostic test:  Neg.  Pos: \_\_\_\_\_

Name of the referring physician (sender): \_\_\_\_\_

Telephone of the physician (sender) reachable 24/7: \_\_\_\_\_/\_\_\_\_\_

	Mikroskopie					PCR							Serology				
	EDTA-Blood	Slide from sender	SAF-fixed stool	Native stool (size of an apricot)	Other	EDTA-Blood	Native stool	Fecal Swab	Nasopharyngeal Swab	Bone marrow	Tissue / Biopsy	Puncture fluid	CSF (1 ml)	Serum / Plasma (2 ml)	Nachweis \$	Serum / Plasma (2 ml)	CSF
<b>Malaria</b>																	
Plasmodium species acute <b>EMERGENCY</b>	<input type="checkbox"/>	<input type="checkbox"/>	→ Registration by telephone (see above)														
Plasmodium species non-acute ①	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>											<input type="checkbox"/>
Plasmodium spp.																	<input type="checkbox"/>
<b>Screening test / Panel</b>																	
Gastro-acute Panel PCR ② with 4 Protozoa, 13 Bacteria & 5 Viruses							<input type="checkbox"/>	<input type="checkbox"/>									
Protozoa (intestinale) panel ③			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>						
Helminth (intestinale) panel ④			<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	*									
Helminth screening test (Europe) incl. <i>Fasciola hepatica</i> , <i>Strongyloides</i> spp., <i>Toxocara</i> spp., <i>Trichinella spiralis</i> .																<input type="checkbox"/>	\$
Helminth screening test (Tropics) incl. <i>Fasciola hepatica</i> , <i>Strongyloides</i> spp., <i>Toxocara</i> spp., <i>Trichinella spiralis</i> , <i>Filaria</i> spp., <i>Schistosoma</i> spp.																<input type="checkbox"/>	\$
Echinococcus screening <i>E. granulosus</i> und <i>E. multilocularis</i>																<input type="checkbox"/>	\$ <input type="checkbox"/>
Flavivirus screening panel ⑤																<input type="checkbox"/>	F
Respiratory SARS-CoV-2 panel ⑥								<input type="checkbox"/>									

Order number SwissTPH

Please mark like this:

- correct
- wrong
- Material not optimal for this analysis
- \* Analysis not accredited.
- ◇ Analysis not accredited & not validated for this material.
- f Analysis is performed externally.
- △ Facultative pathogen.
- \$ Staged diagnostics, see homepage.
- § Detection in serology:  
ELISA: IgG, IFAT: IgG/IgM/IgA,  
Western blot: IgG, or as stated

① For follow-up controls, therapy control and specific questions. Microscopy & PCR: Screening and species differentiation incl. *P. knowlesi*; Serology: no species differentiation.  
② Gastro-acute Panel PCR: *Cryptosporidium* spp., *Cyclospora cayentanensis*, *Entamoeba histolytica*, *Giardia lamblia*, *Campylobacter* spp. (*C. jejuni/coli/upsalensis*), *Clostridium difficile* A/B, EAEC, EIEC/Shigella, EPEC, ETEC lt/st, *Plesiomonas shigelloides*, *Salmonella* spp., *STEC stx1/stx2* (shigella-like toxin producing *E. coli*), *STEC serovar O157:H7*, *Vibrio cholerae*, *Vibrio parahaemolyticus*, *Vibrio vulnificus*, *Yersinia enterocolitica*, *Adenovirus F40/41*, *Astrovirus*, *Norovirus GI/GII*, *Rotavirus A*, *Sapovirus*. (360 TP).  
③ Protozoa microscopy: We recommend to send stool samples from three different days (= 3 stool samples).  
Protozoa panel PCR: *Blastocystis hominis*, *Cyclospora cayentanensis*, *Cystoisospora belli*, *Cryptosporidium* spp., *Entamoeba histolytica*, *E. dispar*, *E. polecki*, *E. moshkovskii*, *Dientamoeba fragilis*, *Giardia lamblia*, *Microsporidia* spp. (*Enterocytozoon bienewisi*, *Encephalitozoon* spp., *Vittaforma corneae*) (360.00 TP).  
④ Helminth microscopy: We recommend for optimal sensitivity native stool (min. 10g, size of an apricot). SAF-fixed stool has a poor sensitivity for trematodes.  
Helminth panel PCR: *Ascaris* spp., *Ancylostoma* spp., *Enterobius vermicularis*, *Hymenolepis* spp., *Necator americanus*, *Strongyloides* spp., *Taenia* spp., *Trichuris trichuria*. (360 TP).  
⑤ Flavivirus screening panel serology: Dengue (1-4), West Nile Virus, Yellow Fever Virus, Japanese Encephalitis Virus.  
⑥ Respiratory panel PCR: *Adenovirus*, *Bocavirus*, *Coronavirus 229E*, *Coronavirus HKU1*, *Coronavirus NL63*, *Coronavirus OC43*, *Human Metapneumovirus A+B*, *Influenza A*, *Influenza A H1N1 pdm09*, *Influenza A H3*, *Influenza B*, *Parainfluenza virus 1-4*, *Respiratory Syncytial Virus A+B*, *Rhinovirus/Enterovirus*, *SARS-CoV-2*, *Bordetella pertussis*, *Legionella pneumophila*, *Mycoplasma pneumoniae*





Please mark like this:  correct  wrong

Material not optimal for this analysis

	Mikroskopy					PCR							Serology				
	EDTA-Blood	Slide from sender	SAF-fixed stool	Native stool (size of an apricot)	Other	EDTA-Blood	Native stool	Nasopharyngeal Swab	Urine	Bone marrow	Tissue / Biopsy	Puncture fluid	CSF (1 ml)	Serum/Plasma (2 ml)	Method §	Serum / Plasma 2 ml	CSF
<b>Helminths</b>																	
Angiostrongylus cantonensis *																	
Anisakis spp.*																	
Echinococcus granulosus																	
Echinococcus multilocularis																	
Enterobius vermicularis																	
Fasciola hepatica (distomatosis)																	
Filariæ spp.																	
- Brugia malayi / B. timori																	
- Wuchereria bancrofti *																	
Gnathostoma spp.*																	
Paragonimus spp.*																	
Schistosoma spp. (Bilharziose)																	
Strongyloides spp.																	
Toxocara spp.																	
Trichinella spiralis																	
T. solium (Cystizercosis) - Antibodies																	
- Antigen <sup>§</sup>																	
<b>Protozoa</b>																	
Acanthamoeba spp. f																	
Bloodparasites (Babesiose, Anaplasma, Ehrlichiosis)																	
Blastocystis hominis Δ																	
Coccidia spp.																	
Cryptosporidium spp., Cyclospora sp., Cystoisospora belli																	
Dientamoeba fragilis Δ																	
Entamoeba spp. ⑥																	
Giardia lamblia																	
Leishmania spp. ⑦: - visceral																	
- (muco)-cutan																	
Microsporidia spp.																	
E. bienersi, Encephalitozoon spp., Vitiiforma corneae																	
Trypanosoma brucei (sleeping sickness (African Trypanosomes))																	
Trypanosoma cruzi (Chagas (American Trypanosomes))																	
<b>Bacteria</b>																	
Borrelia spp. (Relapsing-Fever)																	
Brucella spp. f																	
Burkholderia pseudomallei f																	
Coxiella burnetii (Q-Fever) Phase I u. II f																	
Leptospira spp. f ⑨																	
Mycobacterium leprae (Leprosy) ⑩																	
Mycobacterium ulcerans * (Buruli Ulcer) ⑪																	
Orientia tsutsugamushi f																	
Rickettsia spp. f ⑫																	
<b>Viral diseases</b>																	
Flavivirus screening panel f ⑬																	
Chikungunya Virus f																	
Dengue Virus																	
Japanese Encephalitis Virus f																	
West Nile Virus f																	
Yellow Fever Virus f																	
Zika Virus f																	
SARS-CoV-2 *																	

- Microscopy Enterobius: Anal adhesive tape test (please attach the transparent adhesive tape to a slide and send it to the Swiss TPH).
- Filaria: Please be aware of the circadian rhythm of the microfilaria in the blood. Blood collection *Loa Loa* = midday; Blood collection lymphatic filariasis = around midnight.
- Detection of *Schistosoma* eggs in urine: send urine collection from morning (from 10<sup>00</sup>-14<sup>00</sup> a.m.). Amount of urine: 100 ml-2 L. Detection of *Schistosoma* antigen in urine is not recommend as sole diagnostic because of limited sensitivity and specificity. Detection of *Schistosoma* eggs in biopsy (rectum mucosa, bladder mucosa, liver tissue). Dedection of ccfDNA in Serum, please send at least 2ml Serum.
- Baermann and culture for *Strongyloides* spp. stool should not be cooled (<10°C). We recommend PCR during winter month. Amount of stool: at least the size of an apricot (91.00 TP, PCR180 TP).
- T. solium* antigen detection (ELISA) for therapy control in case of > 2 vital cysticerci.
- Microscopy Entamoeba: no species-differentiation possible. PCR: *E. histolytica*, *E. dispar*, *E. polecki*, *E. moshkovskii* differentiation. Serology: *E. histolytica*, recommended if there is suspicion of a liver abscess.
- Visceral leishmaniasis: e.g. bone marrow (also spleen biopsy, EDTA-blood, etc.) (Muco-/ cutan leishmaniasis: biopsy-cylinder ≥ 3mm in the periphery of the lesion (infected macrophages). PCR species differentiation by HSP70 sequence analysis.
- Under the microscop we can only detect Spirochaeta. A dedection of the species is not possible.
- Leptospira* spp. PCR: blood (detection 1<sup>st</sup> week p.i.), urine (detection 2<sup>nd</sup>-3<sup>rd</sup> week p.i.). Please always send blood & urine together. Serology: indicated earliest one week after onset of disease. Positive serological results will be confirmed externally.
- Mycobacterium leprae*: Slit-skin-smear (biopsy) e.g. ear lobe or skin lesion. Microscopy: detection of acid fast mycobacteria.
- Mycobacterium ulcerans*: please send several cotton swabs of the lesion.
- Rickettsia* spp. : PCR detects tick bite fever and spotted fever.
- Falvivirus screening panel serology: Dengue (1-4), West Nile Virus, Yellow Fever Virus, FMSE, Japanese Encephalitis Virus.
- Worm and/or worm tissue (e.g. proglottids) please send in 0.9% sodium chloride, never fix with formalin.

§ Detection in serology: ELISA: IgG, IFAT: IgG/IgM/IgA, Western blot: IgG, Ab: antibodies Rapid diagnostic test: IgM/IgG and antigen, or as stated.

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**Parasit identification:**

Macro-/ mikroskopy: material ⑭ & origin: \_\_\_\_\_

PCR: for helminth differentiation (tissue of the helminth needed ⑭)

