

Referring doctor/ hospital: (Stamp)

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

- 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 _____/ μ l = _____ % 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: _____ / _____

Order number SwissTPH

	Microscopy			PCR					Serology						
	EDTA-Blood	Slide from sender	SAF-fixed stool	Native stool (size of an apricot)	EDTA-Blood	Native stool	Fecal Swab	Nasopharyngeal Swab	Bone marrow	Tissue / Biopsy	Puncture fluid	CSF (1 ml)	Serum / Plasma (2 ml)	Serum / Plasma (2 ml)	CSF
Malaria															
Plasmodium species acute EMERGENCY	<input type="checkbox"/>	<input type="checkbox"/>													
Plasmodium species non-acute ① Plasmodium spp.	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>							<input type="checkbox"/>			\$
Screening test / Panel Gastro-acute Panel PCR ② with 4 Protozoa, 13 Bacteria & 5 Viruses	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<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"/>	<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"/>	<input type="checkbox"/>										<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"/>	<input type="checkbox"/>										<input type="checkbox"/>			\$
Echinococcus screening <i>E.granulosus</i> und <i>E.multilocularis</i>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>	<input type="checkbox"/>		◊
Flavivirus screening panel ⑤	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>			
Respiratory SARS-CoV-2 panel ⑥	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>										

Please mark like this:

 correct wrong material not optimal for this analysis

◊ Analysis not accredited & not validated for this material.

§ Detection in serology:

ELISA: IgG, IFAT: IgG/IgM/IgA, Western blot: IgG, or as stated

\$ Staged diagnostics, see homepage.

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 cayetanensis*, *Entamoeba histolytica*, *Giardia lamblia*, *Campylobacter* spp. (*C. jejuni*/*coli*/*upsalensis*), *Clostridium difficile* A/B, *EAEC*, *EIEC*, *ETEC*, *It/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*.

③ Protozoa microscopy: We recommend to send stool samples from three different days (= 3 stool samples).

Protozoa panel PCR: *Blastocystis hominis*, *Cyclospora cayetanensis*, *Cystoisospora belli*, *Cryptosporidium* spp., *Entamoeba histolytica*, *E. dispar*, *E. polecki*, *E. moshkovskii*, *Dientamoeba fragilis*, *Giardia lamblia*, *Microsporidia* spp. (*Enterocytozoon bieneusi*, *Encephalitozoon* spp., *Vittaforma corneae*).

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*.

⑤ Flavivirus screening serology: Dengue (1-4), West Nile Virus, Yellow Fever Virus, FMSE, 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 H1*, *Influenza AH1N1 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*.

Diagnostik-Zentrum - Nationales Zentrum für importierte Parasiten - ISO/IEC 17025, STS 0426

0204b

Kreuzstrasse 2, 4123 Allschwil • Telefon (+41) 61 284 82 56 • FAX (+41) 61 284 81 18 • Informations to the tests: www.swisstph.ch

Centre de Diagnostic - Centre national pour les parasitoses importées



Please mark like this:



	Microscopy					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	Serum/Plasma (2 ml)	Method §	Serum / Plasma (2 ml)	CSF
Helminths																
Angiostrongylus cantonensis *	EDTA-Blood															
Anisakis spp.*	EDTA-Blood															
Echinococcus granulosus																
Echinococcus multilocularis																
Enterobius vermicularis	EDTA-Blood															
Fasciola hepatica (distomatosis)	EDTA-Blood															
Filariae spp.	EDTA-Blood															
- Brugia malayi / B. timori																
- Wuchereria bancrofti *																
Gnathostoma spp.*																
Paragonimus spp.*																
Schistosoma spp. (Bilharziose)																
Strongyloides spp.																
Toxocara spp.																
Trichinella spiralis																
T. solium (Cysticercosis) - Antibodies																
- Antigen ⑤ *																
Protozoa																
Acanthamoeba spp. f																
Bloodparasites (Babesiosis, Anaplasma, Ehrlichiosis)	EDTA-Blood															
Blastocystis hominis																
Coccidia spp.																
- Cryptosporidium spp., Cyclospora sp., Cystoisospora belli																
Dientamoeba fragilis																
Entamoeba spp. ⑥																
Giardia lamblia																
Leishmania spp. ⑦: - visceral																
- (muco)-cutan																
Microsporidia spp.																
- E. bieneusi, Encephalitozoon spp., Vittaforma corneae																
Trypanosoma brucei																
sleeping sickness (African Trypanosomes)																
Trypanosoma cruzi																
Chagas (American Trypanosomes)																
Bacteria																
Borrelia spp. (Relapsing-Fever)	EDTA-Blood															
Brucella spp. f	EDTA-Blood															
Burkholderia pseudomallei f																
Coxiella burnetii (Q-Fever) Phase I u. II F																
Leptospira spp. ⑨																
Mycobacterium leprae (Leprosy) ⑩	EDTA-Blood															
Mycobacterium ulcerans *																
- Buruli Ulcer ⑪																
Orientia tsutsugamushi f																
Rickettsia spp. ⑫																
Viral diseases																
Flavivirus screening panel ⑬																
Chikungunya Virus																
Dengue Virus																
Japanese Encephalitis Virus																
West Nile Virus																
Yellow Fever Virus																
Zika Virus																
SARS-CoV-2 (separate order form)																
Parasit identification:																
Macro-/ microscopy: material ⑭ & origin:																
PCR: for helminth differentiation (tissue of the helminth needed ⑮)																

- ① Microscopy Enterobius: Anal adhesive tape test (please attach the transparent adhesive tape to a slide and send it to the Swiss TPH).
- ② Filariasis: Please be aware of the circadian rhythm of the microfilaria in the blood. Blood collection *Loa Loa* = midday; Blood collection lymphatic filariasis = around midnight.
- ③ Detection of *Schistosoma* eggs in urine: send urine collection from morning (from 10⁰⁰-14⁰⁰ a.m.). Amount of urine: 100 ml-2 L. Detection of *Schistosoma* antigen in urine is not recommended as sole diagnostic because of limited sensitivity and specificity. Detection of *Schistosoma* eggs in biopsy (rectum mucosa, bladder mucosa, liver tissue). & Detection of ccfDNA in Serum, please send at least 2ml Serum.
- ④ 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.
- ⑤ *T. solium* antigen detection (ELISA) for treatment control in case of > 2 vital cysticerci.
- ⑥ Microscopy Entamoeba: no species-differentiation possible. PCR: *E. histolytica*, *E. dispar*, *E. polecki*, *E. moschkovi* differentiation. Serology: *E. histolytica*, recommended if there is suspicion of a liver abscess.
- ⑦ 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.
- ⑧ Under the microscope we can only detect Spirochaetae. A detection of the species is not possible.
- ⑨ *Leptospira* spp. PCR: blood (detection 1st week p.i.), urine (detection 2nd-3rd 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.
- ⑩ *Mycobacterium leprae*: Slit-skin-smear (biopsy) e.g. ear lobe or skin lesion. Microscopy: detection of acid fast mycobacteria.
- ⑪ *Mycobacterium ulcerans*: please send several cotton swabs of the lesion.
- ⑫ *Rickettsia* spp.: PCR detects tick bite fever and spotted fever.
- ⑬ Flavivirus screening panel serology: Dengue (1-4), West Nile Virus, Yellow Fever Virus, FMSE, Japanese Encephalitis Virus.
- ⑭ Worm and/or worm tissue (e.g. proglottids) please send in 0.9% sodium chloride, never fix with formalin.
- ⑮ Analysis is performed externally.
- * Analysis not accredited.
- ◊ Analysis not accredited & not validated for this material.
- § Staged diagnostics, see homepage.

