



NHLS PROFICIENCY TESTING SCHEME
MYCOLOGY (YEASTS)

SURVEY QUESTIONNAIRE :

Return date: **27 January 2023**

LABORATORY CODE:

SAMPLE	CLINICAL SCENARIO	CHALLENGE	ANSWER	ALLOCATED MARK
F04-22E (slide) Urine	Urinary tract infection	Were yeasts observed microscopically? Stain the provided slide.	Yes <input type="checkbox"/> No <input type="checkbox"/>	0 or 4
F04-22F (suspended culture) Blood	Malignancy, recent onset fever	What is the identification* of the organism? Provide genus and/or species name.	Only one answer code	0 or 1 or 3 or 4
		What method was used to identify the organism?	Any number of answer codes	Ungraded

GUIDE TO LEVEL OF IDENTIFICATION OF YEASTS*: Yeasts that are cultured from blood or normally-sterile sites should be identified to species level, if possible. If your laboratory cannot perform identification procedures beyond a germ-tube test, these isolates should be referred for identification to a reference laboratory.

Please return the completed survey questionnaire before the return deadline to **fax: +27 (0) 86 246 8373** or **email: mycopts@nhls.ac.za**.



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MYCOLOGY (YEASTS)

Only for laboratories that routinely perform antifungal susceptibility testing:

SAMPLE	CLINICAL SCENARIO	CHALLENGE	ANSWER	ALLOCATED MARK
F04-22H (suspended culture) Urine (catheter)	Elderly woman with a recent stroke	What is the identification of the organism? Provide genus <u>AND</u> species name.	Only one answer code	0 or 4
		What method was used for antifungal susceptibility testing?	Write answer here	Ungraded
		Fluconazole	S: <input type="checkbox"/> SDD: <input type="checkbox"/> R: <input type="checkbox"/> NT: <input type="checkbox"/> NA: <input type="checkbox"/>	0 or 1 or 3 or 4
		Voriconazole	S: <input type="checkbox"/> SDD: <input type="checkbox"/> R: <input type="checkbox"/> NT: <input type="checkbox"/> NA: <input type="checkbox"/>	0 or 1 or 3 or 4
		Anidulafungin	S: <input type="checkbox"/> I: <input type="checkbox"/> R: <input type="checkbox"/> NT: <input type="checkbox"/> NA: <input type="checkbox"/>	0 or 1 or 3 or 4
		Micafungin	S: <input type="checkbox"/> I: <input type="checkbox"/> R: <input type="checkbox"/> NT: <input type="checkbox"/> NA: <input type="checkbox"/>	0 or 1 or 3 or 4

S: susceptible; I: intermediate; R: resistant; SDD: susceptible dose-dependent; NT: not tested; NA: not applicable, e.g. no breakpoints for this organism-agent combination
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ANSWER CODES

F04-22

	Identity of fungus		
01	<i>Candida</i> species, not otherwise specified	21	<i>Rhodotorula mucilaginosa</i>
02	<i>Candida</i> species, not <i>Candida albicans</i>	22	<i>Saccharomyces</i> species
03	<i>Candida albicans</i>	23	<i>Saccharomyces cerevisiae</i>
41	<i>Candida auris</i>	43	<i>Trichosporon</i> species
04	<i>Candida dubliniensis</i>	24	Yeast cultured, not otherwise specified
05	<i>Debaryomyces hansenii</i> (formerly <i>Candida famata</i>)	25	Yeast cultured, sent to reference laboratory for identification
06	<i>Nakaseomyces glabrata</i> (formerly <i>Candida glabrata</i>)	26	<i>Candida</i> species, not <i>Candida albicans</i> , sent to reference laboratory for identification
07	<i>Meyerozyma guilliermondii</i> (formerly <i>Candida guilliermondii</i>)		Identification method
08	<i>Kluyveromyces marxianus</i> (formerly <i>Candida kefyri</i>)	27	Niger seed agar – brown colonies
09	<i>Pichia kudriavzevii</i> (formerly <i>Candida krusei</i>)	28	Colony colour and morphology on Sabouraud agar
10	<i>Clavispora lusitaniae</i> (formerly <i>Candida lusitaniae</i>)	29	Chromogenic agar
11	<i>Candida parapsilosis</i>	30	Germ tube test positive
12	<i>Candida tropicalis</i>	31	Germ tube test negative
13	<i>Cryptococcus</i> species, not otherwise specified	32	Urease positive
14	<i>Naganishia albida</i> (formerly <i>Cryptococcus albidus</i>)	33	API 20C
15	<i>Papiliotrema laurentii</i> (formerly <i>Cryptococcus laurentii</i>)	34	API ID 32C
16	<i>Cryptococcus neoformans</i> species-complex	35	MicroScan
17	<i>Cryptococcus</i> species, not <i>Cryptococcus neoformans</i> species-complex	36	Vitek-2

18	<i>Geotrichum</i> species	37	Auxacolor
19	<i>Malassezia</i> species	38	Molecular method (PCR, probe, sequencing)
42	<i>Moesziomyces</i> species (formerly <i>Pseudozyma</i> species)	39	Other commercial test system, not otherwise specified
20	<i>Rhodotorula</i> species, not otherwise specified	40	MALDI-TOF mass spectrometry