



### Scoring for bacteriology schemes and fungal isolates included as part of the bacteriology distribution

Table1. Single 'core' or 'advanced' pathogen

Response	Core	Advanced
Unexpected pathogen	-1	-1
Negative result	0	0
Unnamed/unspecified micro-organism	0	0*
Correct genus only	0	2
Correct species <sup>†</sup>	2	2
Correct species but incorrect serotype	0	1
Incorrect species	0	1
Incorrect genus	0	0
Additional unexpected pathogen	-1	-1
Correct direct toxin result <sup>‡</sup>	2	2
Incorrect toxin result <sup>‡</sup>	-1	-1

\* 'Unnamed anaerobe' specified scored as 1

<sup>†</sup> With or without the correct serotype / toxin result

<sup>‡</sup> Only used for the *Clostridium difficile* scheme (scoring approved by NQAAP)

Table2. Mixed 'core' and 'advanced' pathogen

Response	Core	Advanced
Unexpected pathogen	-1	-1
Negative result	0	0
Unnamed/unspecified micro-organism	0	0
Correct genus for both	0	2
Correct species for both	2	2
One incorrect species for either	0	1
Incorrect species for both pathogens	0	0
Incorrect genus for one pathogen	0	0
Only one pathogen isolated	0	0
Additional unexpected pathogen	-1	-1

**Rationale:**

Organisms categorised as '**core**' can be readily identified in-house without the requirement for specialist methodology or expertise.

Organisms categorised as '**advanced**' normally referred to a reference or expert laboratory for confirmation and/or specialist testing

# UK NEQAS for Microbiology

## An International Quality Assessment Service for Microbiology



UK NEQAS for Microbiology PO Box 63003, NW9 1GH

Tel: + 44 (0)20 8905 9890 Fax: + 44 (0)20 8205 1488 E-mail: [organiser@ukneqasmicro.org.uk](mailto:organiser@ukneqasmicro.org.uk) web:<http://www.ukneqasmicro.org.uk>

### BACTERIA and FUNGI

List of bacteria and fungi distributed and categorised as 'core' or 'advanced' organisms in accordance with the General Bacteriology scoring scheme criteria.

Core	Advanced
<i>Aeromonas hydrophila</i>	<i>Actinomadura madurae</i>
<i>Arcanobacterium haemolyticum</i>	<i>Acinetobacter lwoffii</i>
<i>Bacteroides fragilis</i>	<i>Acinetobacter baumannii</i>
Beta haemolytic streptococcus group A, B, C, G	<i>Actinomyces israelii</i>
<i>Candida albicans</i>	<i>Actinomyces odontolyticus</i>
<i>Clostridium bifermentans</i>	<i>Agrobacter radiobacter</i>
<i>Clostridium difficile</i>	<i>Aspergillus flavus</i>
<i>Clostridium histolyticum</i>	<i>Aspergillus fumigatus</i>
<i>Clostridium innocuum</i>	<i>Aspergillus niger</i>
<i>Clostridium perfringens</i>	<i>Aspergillus terreus</i>
<i>Clostridium septicum</i>	<i>Bacillus cereus</i>
<i>Clostridium sporogenes</i>	<i>Bacillus subtilis</i>
<i>Clostridium tetani</i>	<i>Bordetella parapertussis</i>
<i>Corynebacterium diphtheriae</i>	<i>Bordetella pertussis</i>
<i>Corynebacterium striatum</i>	<i>Burkholderia cepacia</i>
<i>Corynebacterium ulcerans</i>	<i>Campylobacter coli</i>
<i>Cryptococcus neoformans</i>	<i>Campylobacter jejuni</i>
<i>Enterococcus faecalis</i>	<i>Candida krusei</i>
<i>Enterococcus faecium</i>	<i>Candida parapsilosis</i>
<i>Enterococcus gallinarum</i>	<i>Candida tropicalis</i>
<i>Erysipelothrix rhusiopathiae</i>	<i>Capnocytophaga canimorsus</i>
<i>Escherichia coli</i> O157	<i>Cardiobacterium hominis</i>
<i>Haemophilus influenzae</i>	<i>Clostridium novyi</i>
<i>Haemophilus parainfluenzae</i>	<i>Eikenella corrodens</i>
<i>Klebsiella pneumoniae</i>	<i>Fusobacterium necrophorum</i>
<i>Moraxella catarrhalis</i>	<i>Kingella kingae</i>
<i>Neisseria gonorrhoeae</i>	<i>Lactobacillus acidophilus</i>
<i>Neisseria meningitidis</i>	<i>Lactobacillus paracasei</i>
<i>Pasteurella multocida</i>	<i>Lactobacillus rhamnosus</i>
§ <i>Plesiomonas shigelloides</i>	<i>Legionella pneumophila</i>
<i>Prevotella intermedia</i>	§ <i>Leuconostoc mesenteroides</i>
<i>Prevotella melaninogenica</i>	<i>Listeria ivanovii</i>
<i>Pseudomonas aeruginosa</i>	<i>Listeria monocytogenes</i>
<i>Ralstonia pickettii</i>	<i>Mycobacterium</i> spp.
<i>Rothia mucilaginosa</i>	<i>Nocardia (Cyriacigeorgica) asteroides</i>
<i>Serratia marcescens</i>	<i>Peptostreptococcus anaerobius</i>
<i>Shigella sonnei</i>	<i>Peptostreptococcus asaccharolyticus</i>
<i>Streptococcus anginosus</i> group	<i>Peptostreptococcus (Finegoldia) magnus</i>
<i>Streptococcus bovis</i>	<i>Porphyromonas endodontalis</i>
<i>Streptococcus milleri</i> group	<i>Rhodococcus equi</i>
<i>Streptococcus mutans</i> group	<i>Rothia dentocariosa</i>
<i>Streptococcus oralis</i>	<i>Salmonella</i> spp.
<i>Streptococcus pneumoniae</i>	<i>Shigella boydii</i>
<i>Staphylococcus aureus</i>	<i>Shigella dysenteriae</i>
<i>Staphylococcus epidermidis</i>	<i>Shigella flexneri</i>
§ <i>Staphylococcus lugdunensis</i>	<i>Sphingomonas paucimobilis</i>
<i>Staphylococcus saprophyticus</i>	<i>Vibrio alginolyticus</i>
<i>Stenotrophomonas maltophilia</i>	<i>Vibrio vulnificus</i>
<i>Vibrio cholerae</i>	
<i>Vibrio parahaemolyticus</i>	
<i>Yersinia enterocolitica</i>	
<i>Yersinia pseudotuberculosis</i>	

§ Educational



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### Scoring for mycology distributions

Fungi are categorised as core, advanced and genus only

Response	Core	Advanced	Genus only
Negative result	0	0	0
Unnamed fungus	0	0	0
Correct genus	1	2	2
Correct species	2	2	-
Incorrect species	0	1	-
Incorrect genus	0	0	0

'Core' pathogen – fungi commonly encountered and characterised in-house.

'Advanced' pathogen – fungi commonly referred to a reference laboratory for full characterisation or confirmation.

'Genus only' – fungi of special interest generally as emerging pathogens but isolated relatively infrequently and commonly referred to a reference laboratory for full characterisation. (Fungi in this category may be deemed advanced pathogens at a future time after due consideration by NQAAP and with prior notice to participants).

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### FUNGI

List of Fungi distributed and categorised as 'core, 'advanced' or 'genus only' organisms in accordance with the mycology scoring scheme criteria.

Core	Advanced	Genus only
<i>Aspergillus flavus</i> complex <i>Aspergillus fumigatus</i> complex <i>Aspergillus niger</i> complex <i>Aspergillus terreus</i> complex <i>Candida albicans</i> <i>Candida dubliniensis</i> <i>Candida glabrata</i> <i>Candida kefyr</i> <i>Candida krusei</i> <i>Candida parapsilosis</i> <i>Candida tropicalis</i> <i>Cryptococcus neoformans</i>  <i>Epidermophyton floccosum</i> <i>Microsporum canis</i> <i>Microsporum gypseum</i> <i>Paecilomyces variotii</i> <i>Saccharomyces cerevisiae</i> <i>Scopulariopsis brevicaulis</i> <i>Trichophyton interdigitale</i> <i>Trichophyton mentagrophytes</i> <i>Trichophyton rubrum</i> <i>Trichophyton tonsurans</i>	<i>Aspergillus candidus</i> complex <i>Aspergillus glaucus</i> complex <i>Aspergillus nidulans</i> complex <i>Aspergillus versicolor</i> complex <i>Blastoschizomyces capitatus</i> * <i>Candida guilliermondii</i> <i>Candida famata</i> <i>Candida lipolytica</i> <i>Candida lusitanae</i> <i>Chrysosporium keratinophilum</i> <i>Cunninghamella bertholletiae</i> <i>Lictheimia (Absidia, Mycoladus) corymbifera</i> <i>Microsporum audouinii</i> <i>Microsporum persicolor</i> <i>Paecilomyces lilacinus</i> <i>Phialophora richardsiae</i> <i>Rhizomucor pusillus</i> <i>Rhizopus arrhizus</i> <i>Rhizopus microsporus</i> <i>Scediosporium apiospermum</i> <i>Scediosporium prolificans</i> <i>NeoScytalidium dimidiatum</i> <i>NeoScytalidium hyalinum</i> <i>Sporothrix schenckii</i> <i>Trichophyton erinacei</i> <i>Trichophyton terrestre</i> <i>Trichophyton verrucosum</i> <i>Trichophyton violaceum</i> <i>Trichosporon beigellii</i>	<i>Acremonium</i> spp. <i>Alternaria</i> spp. <i>Bioplaris</i> spp. <i>Cladosporium</i> spp. <i>Curvularia lunata</i> <i>Exophiala</i> spp. <i>Geotrichum</i> spp. <i>Fusarium</i> spp. <i>Mucor</i> spp. <i>Penicillium</i> spp. <i>Phoma</i> spp. <i>Ulocladium</i> spp
	* Now <i>Saprochaete capitata</i>	