

## List of Organisms Distributed in UK NEQAS Schemes

The organisms listed on the following pages have all been distributed one or more times in a UK NEQAS specimen.

The choice of organism and frequency of distribution depends on a number of factors including the current epidemiology, clinical importance and educational value.

### Bacteria distributed for antimicrobial susceptibility testing

Organisms for susceptibility testing are distributed as pure, freeze dried cultures with a request to identify the organism and test susceptibility to a named range of commonly used antimicrobial agents.

<b>Antimicrobial susceptibility</b>	
<i>Acinetobacter</i> spp.	<i>Proteus</i> spp.
<i>Citrobacter</i> spp.	<i>Pseudomonas aeruginosa</i>
<i>Enterobacter</i> spp.	<i>Serratia marcescens</i>
<i>Enterococcus faecalis</i>	<i>Staphylococcus aureus</i>
<i>Enterococcus faecium</i>	<i>Staphylococcus</i> (coagulase -ve spp.)
<i>Enterococcus gallinarum</i>	<i>Stenotrophomonas maltophilia</i>
<i>Escherichia coli</i>	<i>Streptococcus</i> (beta haemolytic) group A & B
<i>Haemophilus influenzae</i>	<i>Streptococcus pneumoniae</i>
<i>Klebsiella</i> spp.	
<i>Moraxella catarrhalis</i>	
<i>Morganella morganii</i>	
<i>Neisseria gonorrhoeae</i>	

### Viruses recently distributed in specimens for virus identification

Specimens are generally distributed in liquid transport medium or as cell suspensions in a gelatin transport medium. Various serotypes are distributed for identification to levels appropriate to the normal practices of participants.

<b>Viruses</b>	
Adenovirus	Influenza A virus
Coxsackievirus group A	Influenza B virus
Coxsackievirus group B	Measles virus
Cytomegalovirus	Parainfluenza viruses
Echovirus	Respiratory syncytial virus
Herpes simplex virus type 1 and 2	Rhinovirus
	Varicella-zoster virus
	Human metapneumoviruses
	Bocavirus
	Human coronavirus (NOT SARS and MERS)

UK NEQAS for Microbiology, P O Box 63003, NW9 1GH

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

**Organisms distributed as part of the general bacteriology scheme**

Specimens are distributed as freeze dried cultures, mostly as mixtures of organisms relevant to the clinical site of isolation. The list below includes organisms considered as probable pathogens in the specimens distributed, and various other organisms included as commensal flora.

<b>Organisms included in bacteriology specimens</b>		
<i>Acinetobacter calcoaceticus</i>	<i>Escherichia coli</i>	<i>Pseudomonas putida</i>
<i>Acinetobacter lwoffii</i>	<i>Escherichia coli</i> O157	<i>Ralstonia mannitolilytica</i>
<i>Acinetobacter baumannii</i> group	<i>Elizabethkingia meningoseptica</i>	<i>Ralstonia pickettii</i>
<i>Actinomadura madurae</i>	<i>Finegoldia magna</i>	<i>Rhodococcus equi</i>
<i>Actinomyces israelii</i>	( <i>Peptostreptococcus magnus</i> )	<i>Rothia mucilaginosa</i>
<i>Actinomyces odontolyticus</i>	<i>Fusobacterium necrophorum</i>	<i>Salmonella</i> species
<i>Aeromonas hydrophila/caviae/sobrie</i>	<i>Gardnerella vaginalis</i>	<i>Salmonella</i> Agona
<i>Aggregatibacter aphrophilus</i>	<i>Haemophilus aphrophilus</i>	<i>Salmonella</i> Anatoma
<i>Aggregatibacter</i>	<i>Haemophilus influenzae</i>	<i>Salmonella</i> Bareilly
<i>Actinomycetemcomitans</i>	<i>Haemophilus parainfluenzae</i>	<i>Salmonella</i> Braenderup
<i>Arcanobacterium haemolyticum</i>	<i>Hafnia alvei</i>	<i>Salmonella</i> Enteritidis
<i>Aspergillus flavus</i> species complex	<i>Kingella kingae</i>	<i>Salmonella</i> Heidelberg
<i>Aspergillus fumigatus</i> species complex	<i>Klebsiella pneumoniae</i>	<i>Salmonella</i> Infantis
<i>Aspergillus niger</i> species complex	<i>Klebsiella</i> spp.	<i>Salmonella</i> Kentucky
<i>Bacillus cereus</i> group	<i>Klebsiella oxytoca</i>	<i>Salmonella</i> Newport
<i>Bacillus subtilis</i>	<i>Lactobacillus acidophilus</i>	<i>Salmonella</i> Oranienburg
<i>Bacteroides fragilis</i> group	<i>Lactobacillus rhamnosus</i>	<i>Salmonella</i> Saint-paul
<i>Bergeyella zoohelcum</i>	<i>Lactobacillus paracasei</i>	<i>Salmonella</i> Stanley
<i>Bordetella parapertussis</i>	<i>Lactococcus lactis</i>	<i>Salmonella</i> Typhimurium
<i>Bordetella pertussis</i>	<i>Lactobacillus</i> spp	<i>Salmonella</i> Virchow
<i>Burkholderia cepacia</i>	<i>Legionella pneumophila</i>	<i>Serratia liquefaciens</i>
<i>Campylobacter coli</i>	<i>Leuconostoc mesenteroides</i>	<i>Serratia marcescens</i>
<i>Campylobacter jejuni</i>	<i>Listeria ivanovii</i>	<i>Shigella boydii</i>
<i>Candida albicans</i>	<i>Listeria monocytogenes</i>	<i>Shigella dysenteriae</i>
<i>Candida glabrata</i>	<i>Malassezia furfur</i>	<i>Shigella flexneri</i>
<i>Candida krusei</i>	<i>Malassezia pachydermatis</i>	<i>Shigella sonnei</i>
<i>Candida parapsilosis</i>	<i>Micrococcus</i> spp.	<i>Sphingomonas paucimobilis</i>
<i>Candida tropicalis</i>	<i>Moraxella catarrhalis</i>	<i>Staphylococcus aureus</i>
<i>Capnocytophaga canimorsus</i>	<i>Moraxella osloensis</i>	<i>Staphylococcus</i> (coagulase negative spp.)
<i>Cardiobacterium hominis</i>	<i>Moraxella phenylpyruvica</i>	<i>Staphylococcus caprae</i>
<i>Chlamydia trachomatis</i>	<i>Morganella morganii</i>	<i>Staphylococcus epidermidis</i>
<i>Citrobacter diversus</i>	<i>Mycobacterium avium-intracellulare</i>	<i>Staphylococcus haemolyticus</i>
<i>Citrobacter freundii</i>	<i>Mycobacterium bovis</i>	<i>Staphylococcus hominis</i>
<i>Citrobacter koseri</i>	<i>Mycobacterium fortuitum</i>	<i>Staphylococcus saprophyticus</i>
<i>Citrobacter rosendi</i>	<i>Mycobacterium kansasii</i>	<i>Staphylococcus sciuri</i>
<i>Citrobacter youngae</i>	<i>Mycobacterium malmoense</i>	<i>Staphylococcus warneri</i>
<i>Clostridium bifermentans</i>	<i>Mycobacterium tuberculosis</i>	<i>Staphylococcus xylosus</i>
<i>Clostridium difficile</i>	<i>Mycobacterium xenopi</i>	<i>Stenotrophomonas maltophilia</i>
<i>Clostridium innocuum</i>	<i>Neisseria cinerea</i>	<i>Streptococcus</i> group A,B,C,G
<i>Clostridium novyi</i>	<i>Neisseria gonorrhoeae</i>	<i>Streptococcus acidominimus</i>
<i>Clostridium perfringens</i>	<i>Neisseria lactamica</i>	<i>Streptococcus bovis</i>
<i>Clostridium septicum</i>	<i>Neisseria meningitidis</i>	<i>Streptococcus anginosus</i>
<i>Clostridium sporogenes</i>	<i>Neisseria sicca</i>	<i>Streptococcus constellatus</i>
<i>Clostridium tetani</i>	<i>Neisseria spp.</i>	<i>Streptococcus intermedius</i>
<i>Corynebacterium diphtheriae</i>	<i>Nocardia cyriacigeorgica</i>	<i>Streptococcus mitis</i>
<i>Corynebacterium pseudodiphtheriticum</i>	( <i>asteroides</i> ) complex	<i>Streptococcus mutans</i>
<i>Corynebacterium striatum</i>	<i>Nocardia otidiscaviarum</i>	<i>Streptococcus oralis</i>
<i>Corynebacterium ulcerans</i>	<i>Pasteurella multocida</i>	<i>Streptococcus pneumoniae</i>
<i>Cryptococcus neoformans</i>	<i>Peptostreptococcus anaerobius</i>	<i>Streptococcus salivarius</i>
<i>Eikenella corrodens</i>	<i>Peptostreptococcus</i>	<i>Streptococcus sanguinis</i>
<i>Enterobacter cloacae</i>	<i>asaccharolyticus</i>	<i>Vibrio alginolyticus</i>
<i>Enterobacter</i> spp.	<i>Plesiomonas shigelloides</i>	<i>Vibrio cholerae</i>
<i>Enterococcus faecalis</i>	<i>Porphyromonas endodontalis</i>	<i>Vibrio fluvialis</i>
<i>Enterococcus faecium</i>	<i>Prevotella intermedia</i>	<i>Vibrio parahaemolyticus</i>
<i>Enterococcus gallinarum</i>	<i>Prevotella melaninogenicus</i>	<i>Vibrio vulnificus</i>
<i>Enterococcus</i> spp.	<i>Propionibacterium acnes</i>	<i>Yersinia enterocolitica</i>
<i>Erysipelothrix rhusiopathiae</i>	<i>Proteus mirabilis</i>	<i>Yersinia pseudotuberculosis</i>
	<i>Proteus vulgaris</i>	
	<i>Providencia alcalifaciens</i>	
	<i>Pseudomonas aeruginosa</i>	
	<i>Pseudomonas fluorescens</i>	

## Organisms distributed as part of the mycology scheme

Specimens are distributed as liquid spore suspensions. In addition to the common fungal pathogens, rarer organisms are distributed in order to give participants the opportunity to familiarise themselves with them.

### Fungi and Yeasts

*Acremonium* spp.  
*Alternaria alternata*  
*Arthroderma* spp  
*Arthroderma (Trichophyton) terrestre*  
*Arthroderma benhamiae*  
*Aspergillus candidus* species complex  
*Aspergillus clavatus*  
*Aspergillus flavus* species complex  
*Aspergillus fumigatus* species complex  
*Aspergillus glaucus* species complex  
*Aspergillus nidulans* species complex  
*Aspergillus niger* species complex  
*Aspergillus terreus* species complex  
*Aspergillus versicolor* species complex  
*Beauveria bassiana*  
*Bipolaris hawaiiensis*  
*Bipolaris australianensis*.  
*Candida albicans*  
*Candida dubliniensis*  
*Candida glabrata*  
*Candida guilliermondii*  
*Candida kefyr*  
*Candida krusei*  
*Candida lipolytica*  
*Candida lusitaniae*  
*Candida parapsilosis*  
*Candida metapsilosis* (*C. parapsilosis* group)  
*Candida orthopsilosis* (*C. parapsilosis* group)  
*Candida tropicalis*  
*Chaetomium* sp.  
*Chrysosporium keratinophilum*  
*Chrysosporium* spp.  
*Cladosporium* spp.  
*Cryptococcus albidus*  
*Cryptococcus neoformans*  
*Cunninghamella bertholletiae*  
*Curvularia lucunata*  
*Epidermophyton floccosum*  
*Exophiala dermatitidis*  
*Exophiala* spp.  
*Exserohilum rostratum*  
*Fusarium oxysporum* species complex  
*Fusarium solani* species complex  
*Fusarium* spp.  
*Geomyces pannorum*  
*Geotrichum candidum*  
*Geotrichum* spp.  
*Hendersonula toruloidea*  
*Lichtheimia (Myocladus, Absidia corymbifera)*

*Magnisiomyces (Blastoschizomyces) capitatus*  
*Malassezia furfur*  
*Malassezia pachydermatis*  
*Microsporum audouinii*  
*Microsporum canis*  
*Nannizia (Microsporum) gypseum*  
*Nannizia (Microsporum) persicolor*  
*Monascus ruber*  
*Mucor* spp.  
*Neoscytalidium dimidiatum*  
*Neoscytalidium hyalinum*  
*Onychocola canadensis*  
*Paecilomyces variotii*  
*Paraphyton* spp  
*Penicillium* spp.  
*Phialophora richardsiae*  
*Phialophora* spp.  
*Phoma* spp.  
*Purpureocillium lilacnum (Paecilomyces lilacinus)*  
*Rasamsonia argillacea*  
*Rhizomucor pusillus*  
*Rhizopus arrhizus/oryzae*  
*Rhodotorula mucilaginosa (rubra)*  
*Sarocladium (Acremonium) spp*  
*Sarocladium (Acremonium) strictum*  
*Sarocladium (Acremonium) kiliense*  
*Saccharomyces cerevisiae*  
*Scedosporium aurantiacum*  
*Scedosporium apiospermum*  
*Scedosporium prolificans*  
*Scopulariopsis brevicaulis*  
*Sporothrix schenckii*  
*Trichophyton erinacei*  
*Trichophyton interdigitale*  
*Trichophyton mentagrophytes*  
*Trichophyton rubrum*  
*Trichophyton soudanense*  
*Trichophyton tonsurans*  
*Trichophyton verrucosum*  
*Trichophyton violaceum*  
*Trichosporon (beigelii) asahii*  
*Trichosporon capitatum*  
*Trichosporon mucoides*  
*Ulocladium* sp.

UK NEQAS for Microbiology, P O Box 63003, NW9 1GH

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

### Parasites distributed as part of the faecal and blood parasitology schemes

Specimens are distributed as formalised faecal suspensions, faecal smears and as prepared blood slides. In addition to the common parasites, rarer organisms are distributed in order to give participants the opportunity to familiarise themselves with them.

#### Parasites

<i>Ancylostoma duodenale</i>	<i>Mansonella perstans</i>
<i>Ascaris lumbricoides</i>	<i>Microsporidia</i> spp.
<i>Babesia divergens</i>	<i>Metagonimus</i> sp.
<i>Blastocystis hominis</i>	<i>Necator americanus</i>
<i>Brugia malayi</i>	<i>Onchocerca volvulus</i>
<i>Capillaria philippinensis</i>	<i>Opisthorchis sinensis</i>
<i>Capillaria hepatica</i>	<i>Paragonimus</i> spp.
<i>Chilomastix mesnili</i>	<i>Plasmodium falciparum</i>
<i>Clonorchis sinensis</i>	<i>Plasmodium knowlesi</i>
<i>Cryptosporidium</i> spp.	<i>Plasmodium malariae</i>
<i>Cyclospora cayetanensis</i>	<i>Plasmodium ovale</i>
<i>Dientamoeba fragilis</i>	<i>Plasmodium vivax</i>
<i>Diphyllobothrium latum</i>	<i>Schistosoma haematobium</i>
<i>Echinococcus granulosus</i>	<i>Schistosoma japonicum</i>
<i>Endolimax nana</i>	<i>Schistosoma mansoni</i>
<i>Entamoeba coli</i>	<i>Schistosoma mekongi</i>
<i>Entamoeba hartmanni</i>	<i>Strongyloides stercoralis</i>
<i>Entamoeba histolytica/dispar</i>	<i>Taenia</i> spp.
<i>Enterobius vermicularis</i>	<i>Toxocara canis</i>
<i>Fasciola hepatica</i>	<i>Toxoplasma gondii</i>
<i>Giardia lamblia</i>	<i>Trichomonas hominis</i>
<i>Heterophyes heterophyes</i>	<i>Trichomonas vaginalis</i>
Hookworm spp.	<i>Trichostrongylus</i> spp.
<i>Hymenolepis diminuta</i>	<i>Trichuris trichiura</i>
<i>Hymenolepis nana</i>	<i>Trypanosoma brucei</i> spp.
<i>Iodamoeba butschlii</i>	<i>Trypanosoma cruzi</i>
<i>Isoospora belli</i>	<i>Wuchereria bancrofti</i>
<i>Leishmania</i> spp.	
<i>Loa loa</i>	