

Bacteria, Fungi and Viruses, Sizes and Significance

Organism	Microbial Group	Rod Length μm	Rod or Coccus Diameter μm	Source	Significance
Absidia corymbifera	Fungi		3.8	Environmental	Zygomycosis
Acetobacter Melanogenus	Bacteria	1.0-2.0	0.4-0.8		Strong beer/vinegar bacterium.
Acinetobacter	Bacteria		1.3	Environmental	Opportunistic infections
Acremonium spp.	Fungi		2.5	Environmental	Extrinsic Allergic Aveons
Actinomyces israelii	Bacteria		1.0	Humans	Antinomycosis
Adenovirus	Virus		0.08	Humans	Colds
Alcaligenes Viscolactis	Bacteria	0.8-2.6	0.6-1.0		Causes ropiness in milk.
Alkaligenes	Bacteria		0.75	Humans	Opportunistic infections
Alternaria alternata	Fungi		14.4	Environmental	Mycotoxicosis
Arenavirus	Virus		0.18	Rodents	Hemorrhagic fever
Aspergillis spp.	Fungi		3.5	Environmental	Aspergillosis, Volatile Organic Compound
Aureobasidium pullulans	Fungi		5	Environmental	Chromomycosis
Bacillus anthracis	Bacteria	3.0-10.0	1.0-1.3 (1.1 average)	Environmental	Causes anthrax in mammals
Bacillus Stearothermophilus	Bacteria	2.0-5.0	0.6-1.0		Biological indicator for steam sterilization
Bacillus subtilis	Bacteria	2.0-3.0	0.7-0.8		Biological indicator for ethylene oxide sterilization
Blastomyces dermatiitidis	Fungi		14	Environmental	Blastomycosis
Bordetella pertussis	Bacteria		0.25	Humans	Whooping cough
Botrytis cinera	Fungi		7	Environmental	Extrinsic Allergic Aveons
Cardiobacterium	Bacteria		0.63	Humans	Opportunistic infections

Chaetomium globosum	Fungi		5.5	Environmental	Chromomycosis, Volatile Organic Compound
Chlamydia psittaci	Bacteria		0.3	Birds	Psittacosis
Chlamydia pneumoniae	Virus		0.3	Humans	Pneumonia
Cladosporium spp.	Fungi		9	Environmental	Chromblastomycosis
Clostridium botulinum (B)	Bacteria	3.0-8.0	0.5-0.8		Produces exotoxin causes botulism
Clostridium Perfringens	Bacteria	4.0-8.0	1.0-1.5		Produces toxin causing food poisoning
Clostridium tetani	Bacteria	4.0-8.0	0.4-0.6		Produces exotoxin causing tetanus
Coccidioides immitis	Fungi		4	Environmental	Coccidioidomycosis
Coronavirus	Virus		0.11	Humans	Colds
Corynebacteria diphtheria	Bacteria		1.0	Humans	Diphtheria
Coxiella burnetii	Bacteria		0.5	Cattle, sheep	Q fever
Coxsackievirus	Virus		0.027	Humans	Colds
Cryptococcus neoformans	Fungi		5.5	Environmental	Cryptococcosis
Diplococcus Pneumoniae	Bacteria		0.5-1.25		Causes lobar pneumonia
Echovirus	Virus		0.028	Humans	Colds
Emmericella nidulans	Fungi		3.3	Environmental	Mycotoxicosis, Volatile Organic Compound
Epidermophyton floccosum	Fungi		20	Environmental	Extrinsic Allergic Avelons
Erwinia carotovora	Bacteria	2.0-3.0	0.5		Causes soft rot in vegetables.
Escherichia coli	Bacteria	1.0-3.0	0.5		Indicator of fecal contamination in water.
Eurotium spp.	Fungi		5.8	Environmental	Extrinsic Allergic Avelons
Exophiala jeikei	Fungi		2	Environmental	Chromomycosis
Francisella tularensis	Bacteria		0.2	Wild animals	Tularemia
Geomyces pannorum	Fungi		3	Environmental	Extrinsic Allergic Avelons

Haemophilus influenzae	Bacteria	0.5-2.0	0.2-0.3		Causes influenza and acute respiratory infections
Haemophilus influenzae	Bacteria		0.43	Humans	Meningitis, pneumonia
Haemophilus parainfluenzae	Bacteria		1	Humans	Opportunistic infections
Hantavirus	Virus		0.07	Rodents	Hantavirus
Helminthosporium	Fungi		12.5	Environmental	Extrinsic Allergic Aveons
Histoplasma capsulatum	Fungi		3	Environmental	Histoplasmosis
Influenza	Virus		0.1	Humans, birds	Flu
Klebsiella pneumoniae	Bacteria	5	0.4-0.5	Environmental	Opportunistic infections, causes pneumonia and other respiratory inflammation
Lactobacillus Delbrueckil	Bacteria	2.0-9.0	0.5-0.8		Causes souring of grain-mashes
Legionella pneumophia	Bacteria		0.6	Environmental	Pontiac fever
Micromonospora faeni	Actinomycetes		1	Agricultural	Farmers' lung, Hypersensitivity Pneumonitis
Micropolyspora faeni	Actinomycetes		0.69	Agricultural	Farmers' lung, Hypersensitivity Pneumonitis
Moraxella catarrhalis	Bacteria		1.3	Humans	Opportunistic infections
Moraxella lacunata	Bacteria		1	Humans	Opportunistic infections
Morbillvirus	Virus		<>		