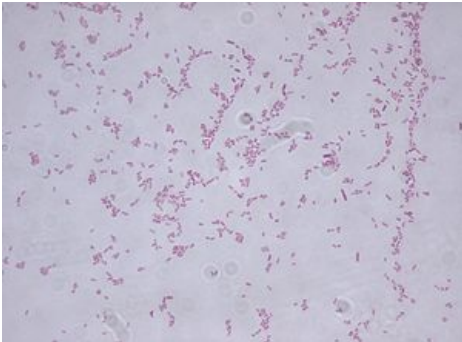


# Stenotrophomonas

<i>Stenotrophomonas</i> spp.	
<i>Xanthomonadaceae</i>	
	
<i>Stenotrophomonas</i>	
Stenotrophomonas in Gram stain	
Morphology	G-sticks
Relation to oxygen	aerobic
Cultivation	MacConkey agar
Occurrence	soil, water, plants
Disease	respiratory infections, ventilated pneumonia and cystic fibrosis patients, early infections, urinary tract infections
Therapy	co-trimoxazole, rifampicin, doxycycline
MeSH ID	D020588

The genus *Stenotrophomonas* belongs to the so-called gram-negative non-fermenting bacteria , this group includes genera showing similar characteristics as this genus, they are the genus *Pseudomonas* and the genus *Burkholderia* . Due to their common characteristics and traits, these genera can be put into context, in the medical sense, these genera are important mainly in terms of nosocomial diseases .

## Taxonomy

The taxonomy of the genus *Stenotrophomonas* is constantly renewed, the current classification is as follows:

- class Gammaproteobacteria
- order Xanthomonadales
- family Xanthomonadaceae
- genus *Stenotrophomonas*
- species - there are several species, the most risky representative is considered a bacterium - *Stenotrophomonas maltophilia*

## Characteristics

This genus is characterized by delayed biochemical activity. Furthermore, they do not stain in the oxidase test , so they are oxidase negative. Like the previous genus *Pseudomonas* , the genus *Stenotrophomonas* is the cause of nosocomial infections .

## Important representatives

*Stenotrophomonas maltophilia* is considered to be the most risky representative of the genus *Stenotrophomonas* . It is highly resistant to most anti-pseudomonad drugs, such as aminoglycosides , ceftazidime or piperacillin . In contrast, fluoroquinolones and cotrimoxazole are effective against it .

## Links

### Related articles

- - *Pseudomonas*, *Stenotrophomonas*, *Burkholderia*

## Reference

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Bacteria	

Bacteria	

G +

coke	aerobic	<table><tr><td><i>Micrococcus</i></td><td><i>Micrococcus luteus</i></td></tr><tr><td><i>Rhodococcus</i></td><td><i>Rhodococcus equi</i></td></tr></table>	<i>Micrococcus</i>	<i>Micrococcus luteus</i>	<i>Rhodococcus</i>	<i>Rhodococcus equi</i>	
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	<i>Rhodococcus</i>	<i>Rhodococcus equi</i>					
	facultatively anaerobic	<table><tr><td><i>Enterococcus</i></td><td><i>Enterococcus durans</i> • <i>Enterococcus faecalis</i> • <i>Enterococcus faecium</i></td></tr><tr><td><i>Streptococcus</i></td><td><i>Streptococcus agalactiae</i> • <i>Streptococcus mutans</i> • <i>Streptococcus pneumoniae</i> • <i>Streptococcus pyogenes</i> • <i>Streptococcus suis</i> • <i>Oral streptococci</i></td></tr><tr><td><i>Staphylococcus</i></td><td><i>Staphylococcus aureus</i> • <i>Staphylococcus epidermidis</i> • <i>Staphylococcus intermedius</i> • <i>Staphylococcus saprophyticus</i></td></tr></table>	<i>Enterococcus</i>	<i>Enterococcus durans</i> • <i>Enterococcus faecalis</i> • <i>Enterococcus faecium</i>	<i>Streptococcus</i>	<i>Streptococcus agalactiae</i> • <i>Streptococcus mutans</i> • <i>Streptococcus pneumoniae</i> • <i>Streptococcus pyogenes</i> • <i>Streptococcus suis</i> • <i>Oral streptococci</i>	<i>Staphylococcus</i>
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sticks	aerobic + facultative anaerobic	<table><tr><td><i>Arcanobacter</i></td><td><i>Arcanobacterium haemolyticum</i></td></tr><tr><td><i>Bacillus</i></td><td><i>Bacillus anthracis</i> • <i>Bacillus cereus</i></td></tr><tr><td><i>Corynebacterium</i></td><td><i>Corynebacterium diphtheriae</i> • <i>Corynebacterium jeikeium</i> • <i>Corynebacterium ulcerans</i> • <i>Corynebacterium urealyticum</i></td></tr><tr><td><i>Erysipelothrix</i></td><td><i>Erysipelothrix rhusiopathiae</i></td></tr><tr><td><i>Listeria</i></td><td><i>Listeria monocytogenes</i></td></tr><tr><td><i>Nocardia</i></td><td><i>Nocardia asteroides</i> • <i>Nocardia brasiliensis</i></td></tr><tr><td><i>Rhodococcus</i></td><td><i>Rhodococcus equi</i></td></tr></table>	<i>Arcanobacter</i>	<i>Arcanobacterium haemolyticum</i>	<i>Bacillus</i>	<i>Bacillus anthracis</i> • <i>Bacillus cereus</i>	<i>Corynebacterium</i>	<i>Corynebacterium diphtheriae</i> • <i>Corynebacterium jeikeium</i> • <i>Corynebacterium ulcerans</i> • <i>Corynebacterium urealyticum</i>	<i>Erysipelothrix</i>	<i>Erysipelothrix rhusiopathiae</i>	<i>Listeria</i>	<i>Listeria monocytogenes</i>	<i>Nocardia</i>	<i>Nocardia asteroides</i> • <i>Nocardia brasiliensis</i>	<i>Rhodococcus</i>	<i>Rhodococcus equi</i>
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coke	aerobic	<div><div>Acinetobacter</div><div>Acinetobacter calcoaceticus</div></div> <div><div></div><div></div></div> <div><div>Moraxella</div><div>Moraxella catarrhalis • Moraxella lacunata</div></div> <div><div></div><div></div></div> <div><div>Neisseria</div><div>Neisseria gonorrhoeae • Neisseria meningitidis • Non-pathogenic species of Neisseria</div></div>
	anaerobic	<div><div>Veillonella</div><div>Veillonella alcalescens • Veillonella parvula</div></div>

cocobacilli	aerobic	<div><div>Rickettsia</div><div>Rickettsia prowazekii • Rickettsia rickettsii • Rickettsia typhi</div></div>
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aerobic	<div><div>Alcaligentes</div><div>Alkaligentes feacalis</div></div>
	<div><div>Bartonella</div><div>Bartonella bacilliformis • Bartonella henselae • Bartonella quintana</div></div>
	<div><div>Bordetella</div><div>Bordetella bronchiseptica • Bordetella parapertussis • Bordetella pertussis</div></div>
	<div><div></div><div></div></div>
	<div><div>Brucella</div><div>Brucella abortus • Brucella canis • Brucella melitensis • Brucella suis</div></div>
	<div><div>Burkholderia</div><div>Burkholderia cepacia • Burkholderia mallei • Burkholderia pseudomallei</div></div>
	<div><div></div><div></div></div>
	<div><div>Francisella</div><div>Francisella tularensis</div></div>
	<div><div></div><div></div></div>
	<div><div>Legionella</div><div>Legionella pneumophila</div></div>
	<div><div></div><div></div></div>
<div><div>Kingella</div><div>Kingella denitrificans • Kingella kingae • Kingella oralis</div></div>	
<div><div>Pseudomonas</div><div>Pseudomonas aeruginosa • Pseudomonas fluorescens</div></div>	
<div><div></div><div></div></div>	
<div><div>Stenotrophomonas</div><div>Stenotrophomonas maltophilia</div></div>	

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acid resistant	sticks	aerobic	<table><tr><td><i>Mycobacterium</i></td><td><i>Atypical mycobacteria</i> • <i>Mycobacterium tuberculosis</i> • <i>Mycobacterium leprae</i></td></tr></table>	<i>Mycobacterium</i>	<i>Atypical mycobacteria</i> • <i>Mycobacterium tuberculosis</i> • <i>Mycobacterium leprae</i>
			<i>Mycobacterium</i>	<i>Atypical mycobacteria</i> • <i>Mycobacterium tuberculosis</i> • <i>Mycobacterium leprae</i>	

non-stainable G +/-	spiral	strictly aerobic	<i>Leptospira</i>	<i>Leptospira biflexa</i> • <i>Leptospira interrogans</i> • <i>Leptospira parva</i>
		microaerophilic	<i>Borrelia</i>	<i>Borrelia burgdorferi</i> • <i>Borrelia hermsi</i> • <i>Borrelia recurrentis</i> • <i>Borrelia vincenti</i>
		strictly anaerobic	<i>Treponema</i>	<i>Non-pathogenic treponems</i> • <i>Treponema carateum</i> • <i>Treponema pallidum</i> • <i>Treponema phagedenis</i> • <i>Treponema pertenue</i>
Portal: Microbiology				

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- Microbiology
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