

Table S1. Summary of reports and studies identifying opportunistic premise plumbing pathogens in residential drinking water systems.

Study Site	Reservoir	Pathogen ^a	Prevalence ^b	Detection Method ^c	Antimicrobial Characteristics ^d	Country ^e	Year ^f	Reference
House Commercial building Hotel	Tap	<i>Legionella</i> spp.	Water: 19.8% total buildings *	Culture	N/A	USA	2002	[9]
House	Washing machine	<i>Methylobacteriu</i> <i>m</i> spp. <i>Pseudomonas</i> <i>spp.</i> <i>Stenotrophomonas</i> <i>s</i> spp.	Not specified	Culture	N/A	USA Switzerland Germany South Korea	2010 ^f	[30]
House	Tap	<i>Pseudomonas</i> <i>spp.</i>	Not specified	Culture	N/A	Australia Germany India Malaysia Saudi Arabia South Africa England USA	2009	[31]
House	Water	NTM	Water: 12% *	N/A	N/A	USA and Finland	2015 ^f	[32]
House Hotel University	Sink	<i>P. aeruginosa</i>	Biofilm: 26.1% *	Culture	N/A	Nigeria	2013 ^f	[33]
House Hotel	Cooling tower	<i>L. pneumophila</i>	Water: 22.5% *	Culture	N/A	Iran	2015	[34]
House Accommodation sites	Hot water system Shower Tap	<i>Legionella</i> spp.	Water: 71.4% accommodation buildings (>1000 CFU/L)	Culture	N/A	Hungary	2013	[35]

				61.5% house (central hot water supplies 50 CFU/L) 7.7% house (individual hot water supplies 50-5300 CFU/L)				
House Commercial building	Tap	<i>L. pneumophila</i> <i>M. avium</i>	<i>L. pneumophila:</i> 38% (3188 CE/L) <i>M. avium:</i> 42% (2006 CE/L)	Culture and molecular	N/A	USA	2014	[36]
Public bath House	Bath	<i>Legionella</i> spp. <i>Mycobacterium</i> spp.	Water: Public bath: <i>Legionella</i> spp.: 3% ($<10 \times 10^4$ CFU/100mL) NTM: 0.6% * House bath: <i>Legionella</i> spp: 60.5% ($<10 \times 10^4$ CFU/100mL) NTM: 21% *	Culture	N/A	Japan	2009-2011	[37]
House Commercial building	Tap	<i>P. aeruginosa</i>	Water: 40% (1-75 CFU/100mL)	Culture	Disc diffusion: 54.5% MDR	India	2003	[38]
House DWDS	Tap	<i>Aeromonas</i> spp.	Not specified	Culture	N/A	Canada	1997 ^f	[39]
Hotel Retirement home	Water	<i>Legionella</i> spp.	Water: 66.6% of seasonal facilities (450 CFU/L ⁻¹)	Culture	N/A	Croatia	2009	[40]
House DWDS	Shower Tap Municipal water Cooling tower	<i>Legionella</i> spp.	Water: 30% * Biofilm: 56% *	Culture	N/A	USA*	1992 ^f	[41]
House DWDS	Tap	<i>H. pylori</i>	Water: 15%*	Culture and molecular	N/A	England	2004 ^f	[42]

House School	Water	NTM	Water: 65% houses ($1\text{--}3 \times 10^2$ CFU/L) 100% water meter (5×10^2 CFU/L) 100% schools ($1.6 \times 10^2\text{--}6 \times 10^2$ CFU/L) 100% swimming pools ($2.9 \times 10^1\text{--}3.1 \times 10^4$ CFU/L) Biofilm: 100% house (shower floor) ($1 \times 10^2\text{--}1.2 \times 10^5$ CFU/cm ²) 67% public building (shower floor) ($5\text{--}3.7 \times 10^3$ CFU/cm ²) 50% pool edge (4.5 CFU/cm ²)	Culture	N/A	Italy	2014 ^f	[43]
House	Tap Well	<i>Acinetobacter</i> <i>haemolyticus</i> <i>Aeromonas</i> <i>hydrophila</i> <i>Pseudomonas</i> <i>aeruginosa</i>	Water: <i>P. aeruginosa</i> : 11.36% well water (166.7 CFU/mL) <i>A. haemolyticus</i> : 11.1% tap water (333.3 CFU/mL) <i>A. hydrophila</i> 6.82% tap water (333.3 CFU/mL)	Culture	N/A	Saudi Arabia	2014	[44]
House	Water	<i>Legionella</i> spp.	Water: 77.5% *	Molecular	N/A	USA	2016	[45]
House	Tap	<i>Helicobacter</i> spp.	Water: 12% *	Molecular	N/A	Sweden	1998 ^f	[46]
House	Tap	<i>A. hydrophila</i>	Water: Contaminated well water linked to 1	Culture	N/A	USA	2015	[47]

recurrent clinical case *								
House	Water	<i>L. pneumophila</i>	Water: 15.9% *	Molecular	N/A	USA	2020 ^f	[48]
House	Well	<i>P. aeruginosa</i> <i>Acinetobacter</i> spp.	Water: <i>P. aeruginosa</i> : 17 urban * 19 rural * <i>Acinetobacter</i> spp.: 5 urban *	Culture	Disc diffusion: <i>P. aeruginosa</i> : 2.8% R PIP ^R 5.6% R CIP ^R 5.6% R NET ^R <i>Acinetobacter</i> spp.: 62.5% R AMP ^R 37.5% R AMX ^R 50% R CFZ ^R 37.5% R SEF ^R	India	2009	[49]
House	Tap	<i>Pseudomonas</i> spp.	Water: Rain water: 25%* Well water: 75% *	Culture	Disc diffusion: 100% R AMP ^R 100% R COL ^R 75% R GEN ^R 100% R STR ^R 100% R TET ^R 50% R COT ^R	Nigeria	2011	[50]
House	Water	<i>Legionella</i> spp. <i>Mycobacterium</i> spp.	Water: <i>Legionella</i> spp: 86.7%* <i>Mycobacterium</i> spp.: 68.1%*	Culture and molecular	N/A	USA	2020 ^f	[51]
House	Shower Tap Water heater	<i>L. pneumophila</i>	Water: Water heater linked to 1 clinical case (10 ⁹ CFU/L)	Culture	N/A	USA	2001 ^f	[52]
House	Tap	<i>P. aeruginosa</i>	Water: 7.14%*	Culture	Disc diffusion: 100% AMC ^R 100% AMP ^R 100% CHL ^R 100% TET ^R 100% SXT ^R 50% CRO ^R 40% GEN ^R	Ethiopia	2013	[53]

House	Hot water system Shower	<i>Legionella pneumophila</i>	Water: 23.3% hot water system * 7.5% tap water * 6% shower water *	Culture	Disc diffusion: 100% CIP ^S 100% RIF ^S 89.2% AZM ^R 71.4% MXF ^R 64.3% CLR ^R 35.7% TGC ^R 32.1% ERY ^R 21.4% CRO ^R 17.8% DOX ^R 14.2% LVX ^R	Iraq	2019 ^f	[54]
House	Tap Water storage	<i>Aeromonas</i> spp.	Water: Tap: 6% * Water storage: 12% *	Culture	Disc diffusion: 55% R AMP ^R 48% R ERY ^R 41% R AMC ^R 28% R CAZ ^R 27% R FOX ^R 26% R CRO ^R 26% CTX ^R 22% R PIP ^R 14% R SXT ^R 12% R TET ^R 11% R ATM ^R 8% R MEM ^R 6% R IPM ^R 2% R NAL ^R 1% R CIP ^R 1% R TOB ^R 1% R GEN ^R	Turkey	2005	[55]
House	Tap	<i>P. aeruginosa</i>	Water: 100% (10 ⁵ –10 ⁹ CFU)	Culture	Disc diffusion: 13 isolates MDR	Iran	2019 ^f	[56]
House	Water	<i>Aeromonas</i> spp.	Not specified	Culture	Disc diffusion: CHL ^R PEN ^R AMP ^R CLOXA ^R	South Africa	2006	[57]
House	Water	<i>P. aeruginosa</i>	Water: House: 2.13%*	Culture	Disc diffusion: 13.2% MDR	Italy	2015	[58]

House	Water storage	<i>Pseudomonas</i> spp. <i>S. maltophilia</i> <i>Acinetobacter</i> <i>lwoffii</i> <i>A. hydrophila</i>	Water: <i>P. aeruginosa</i> 6% * <i>P. fluorescens</i> 6.75%* <i>P. luteola</i> 0.7%* <i>P. stutzeri</i> 2.2%* <i>S. maltophilia</i> 1.5%* <i>A. lwoffii</i> 7.5%* <i>A. hydrophila</i> 0.7%*	Culture	Broth microdilution: 80.6% MDR	South Africa	2012	[59]
House	Dishwasher	<i>S. maltophilia</i> <i>P. aeruginosa</i>	Biofilm: <i>S. maltophilia</i> : 33%* <i>P. aeruginosa</i> : 20%*	Culture	Broth microdilution: 57% R CTX ^R 70% R CAZ ^R	Slovenia*	2019 ^f	[60]
House	Sink U-bend	<i>Pseudomonas</i> spp. <i>S. maltophilia</i> <i>A. hydrophila</i> <i>A. baumannii</i>	Biofilm: <i>Pseudomonas</i> <i>putida</i> : 20.9% * <i>P. aeruginosa</i> : 18.7% * <i>A. hydrophila</i> : 12.1% * <i>S. maltophilia</i> : 11% * <i>A. baumannii</i> : 2.2% *	Molecular	VITEK-2: <i>P. aeruginosa</i> (1) isolate MDR <i>S. maltophilia</i> (3) isolates MDR BAC ^R >640 μg/mL	Germany	2018	[61]
House	Tap	<i>A. hydrophila</i>	Biofilm: 24% *	Culture	VITEK-2: TIC ^R CAZ ^R ATM ^R MIN ^I	Iraq	2019 ^f	[62]
House	Water	<i>L. pneumophila</i> <i>Acinetobacter</i> spp. <i>Pseudomonas</i> spp.	Water: 5%*	Molecular	<i>P. aeruginosa</i> aph(3')-I	China	2019 ^f	[63]
House	Shower drain	<i>S. maltophilia</i> <i>P. aeruginosa</i> <i>Acinetobacter</i> spp. <i>Aeromonas</i> spp.	Biofilm: <i>S. maltophilia</i> : 27.9%* <i>P. aeruginosa</i> : 9.3%*	Culture	<i>Bla</i> CMY-2, <i>bla</i> ACT/MIR and <i>bla</i> OXA-48	Germany	2019	[64]

<i>Acinetobacter</i> spp.: 1.6%*									
<i>Aeromonas</i> spp.: 3.9%*									
Drinking water distribution system	Water	<i>Aeromonas</i> spp.	Water: 32.4% *	Culture	100% AMP ^R 100% PMB ^R 77.8% CEF ^R 83.3% ERY ^R	India	1999 ^f	[65]	
Water: Shower water linked to 1 clinical case *									
House	Shower	<i>P. aeruginosa</i>		Culture	N/A	Israel	1986	[66]	
House	Bath	<i>M. avium</i>	Water: Bath water linked to 1 clinical case*	Culture	RIF ^R STR ^R EMB ^R	Japan*	2000	[67]	
House	Water	<i>Pseudomonas</i> spp.	Water: 20.8% (6–1100 CFU/ 250 mL)	Culture	N/A	Cyprus	2015 ^f	[68]	
Biofilm and Water: <i>Mycobacterium</i> spp.: 66% buildings *									
Drinking water distribution system	Municipal water	<i>L. pneumophila</i>	<i>Mycobacterium</i> spp.: 66% buildings *	Molecular	N/A	Canada	2018	[69]	
<i>L. pneumophila</i> : 83% buildings *									
House	Shower Tap	<i>L. pneumophila</i>	Water: Residential water linked to 2 clinical cases (6×10^3 – 2.3×10^4 CFU/L)	Culture	N/A	Israel*	2003 ^f	[70]	
House	Tap	<i>Pseudomonas</i> spp. <i>S. maltophilia</i>	Not specified	Culture	N/A	Canada*	1988	[71]	
House	Tap	<i>Mycobacterium xenopei</i>	Water: 6% *	Culture	N/A	United Kingdom	1970 ^f	[72]	
House	Shower	<i>Mycobacterium xenopi</i>	Biofilm: 95.4% * Water: 90.9% *	Culture	N/A	Czech Republic	1990	[73]	
House	Tap	<i>L. pneumophila</i> <i>M. avium</i>	Not specified	Culture	N/A	USA	2007	[74]	

House	Tap	<i>Mycobacterium</i> spp.	Water: 39.42% *	Culture and molecular	N/A	India	2000	[75]
House	Tap	NTM	Water: 16% *	Culture	N/A	Mexico	2009	[76]
House	Tap	<i>Mycobacterium</i> spp.	Water: 25% (4–1600 CFU/L)	Culture	N/A	Germany	1992	[77]
DWDS	Water	<i>Mycobacterium</i> spp.	Water: 38.7%*	Culture	N/A	Czech Republic	1994 ^f	[78]
House	Water	<i>M. xenopi</i>	Water: 45.5% of patients' houses 29.4% of neighbours' houses*	Culture	N/A	Prague	1993 ^f	[79]
House	Tap	NTM	Water: 33.9% *	Culture	N/A	Czech Republic	2013 ^f	[80]
House	Tap Shower	<i>Methylobacteriu</i> m spp. <i>M. avium</i>	Biofilm: <i>Methylobacterium</i> spp.: 46%(>10 CFU/mL) <i>M. avium</i> : 27% (>1 CFU/mL)	Culture	N/A	USA	2016 ^f	[81]
House	Tap	<i>Legionella</i> spp. <i>Mycobacterium</i> spp. <i>Pseudomonas</i> spp.	Not specified	Molecular	N/A	China	2021 ^f	[82]
House	Water	<i>H. pylori</i>	Water: 53.3% *	Culture	N/A	India	2013 ^f	[83]
House	Tap	<i>Legionella</i> spp. <i>Mycobacterium</i> spp. <i>Helicobacter</i> spp.	Water: <i>Legionella</i> spp.: 21% * <i>Mycobacterium</i> spp.: 35.1% * <i>Helicobacter</i> spp.: 7% *	Culture and molecular	N/A	USA	2018 ^f	[84]
House	Water storage tank	<i>Aeromonas</i> spp. <i>Pseudomonas</i> spp.	Biofilm: <i>Aeromonas</i> spp.: 77.5% *	Culture	N/A	Oman	2011 ^f	[85]

			<i>Pseudomonas</i> spp.: 97.5% *					
House	Bath Shower	<i>Legionella</i> spp.	Water: <i>Legionella</i> spp.: 72.5% (5–5625 CFU/L) <i>L. pneumophila</i> : 59.5% (3.5.5–990 CFU/L)	Culture	N/A	Morocco	2013	[86]
House	Hot water tank Tap Shower	<i>Legionella</i> spp.	Water: <i>Legionella</i> spp.: 1.5% * <i>L. pneumophila</i> : 11.5% *	Culture	N/A	USA	2016	[87]
House	Shower	<i>Legionella</i> spp.	Water: 8.1% (4.0 × 10^1 – 1.3×10^4 CFU/L) Biofilm: 1.1% (5.4× 10^2 CFU/swab)	Culture and molecular	N/A	United Kingdom	2017 ^f	[88]
House	Tap	<i>Legionella</i> spp.	Water: 20% (250–1000 CFU/L)	Culture	N/A	Croatia	2009	[89]
House	Hot water	<i>L. pneumophila</i>	Water: 12.7% (500–13,000 CFU/L)	Culture	N/A	Croatia	2011	[90]
Accommodation site	Water	<i>Legionella</i> spp.	Water: 27.3% *	Culture	N/A	Croatia	2012	[91]
House	Tap	<i>Legionella</i> spp.	Water: Residential: 52% (10^2 – 10^5 CFU/L)	Culture	N/A	Italy	2008	[92]
House	Shower Sprinkler	<i>L. pneumophila</i>	Water: 10% (3.0×10^2 – 8.0×10^6 CFU/L)	Culture	N/A	New Zealand	2006	[93]
House	Water	<i>Legionella</i> spp.	Water: Hot water: 40% (2×10^2 to 7.6×10^5 CFU/L)	Culture	N/A	Italy	2019	[94]

			Cold water: 12% (1 $\times 10^2$ and 1.2×10^4 CFU/L)					
House	Building inlet	<i>Legionella</i> spp.	23% (2×10^2 to 4.8×10^4 CFU/L)	Culture	N/A	Italy	2017	[95]
House	Tap	<i>L. pneumophila</i>	Water: Residential water linked to 3 clinical cases *	N/A	N/A	Italy*	1986	[96]
House	Water	<i>A. hydrophila</i>	Water: 27%*	N/A	N/A	Philippines	2013	[97]
House	Water storage	<i>Pseudomonas</i> spp. <i>L. pneumophila</i>	Water: <i>L. pneumophila</i> : 13.3% (100–800 CFU/L) <i>Pseudomonas</i> spp.: 86.6% (7–1000 CFU/100mL)	Culture	N/A	United Kingdom	2016	[98]
House	Shower	<i>Legionella</i> spp.	Water: <i>Legionella</i> spp.: 73.5% (7603 copies/mL) <i>L. pneumophila</i> : 63.2% (4295 copies/mL)	Molecular	N/A	Australia	2018	[99]
House	Ice cube	<i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp.	Not specified	Culture	N/A	Italy	2017	[110]
House	Tap	<i>L. pneumophila</i>	Water: 20% (1.0×10^4 – 2.1×10^5 CFU/L)	Culture	N/A	Finland*	1999	[119]
House	Tap	<i>Legionella</i> spp.	Water: 10% * Biofilm: 4% *	Culture and molecular	N/A	New Zealand	2000 ^f	[120]
House	Shower	<i>L. pneumophila</i>	Water:	Culture	N/A	Italy	2000	[121]

		Water heater	30% hot water tanks * 6.2% shower *					
House	Hot water system	<i>Legionella</i> spp.	Water: 12% (0 to 1×10^5 CFU/100mL)	Culture	N/A	Germany	2003	[124]
House	Tap	<i>A. hydrophila</i> <i>P. aeruginosa</i>	Water: <i>A. hydrophila</i> : 6.6% without POU filter (10 CFU/500mL) 10.5% with POU filter (29.5 CFU/500mL) <i>P. aeruginosa</i> : 16.6% without POU (15 CFU/500mL) 33.3% with POU filter (102 CFU/500mL)	Culture	N/A	USA	1998	[127]
House	Sink	<i>P. aeruginosa</i>	Biofilm: 19% (1×10^2 – 1.5×10^5 CFU/swab)	Culture	N/A	USA	1997 ^f	[128]
House	Tap Shower	<i>Mycobacterium</i> spp. <i>Legionella</i> spp. <i>P. aeruginosa</i>	Water: <i>Mycobacterium</i> spp. Cold water: 95.4% (1–500 CFU/500mL) <i>Mycobacterium</i> spp. Warm water: 15.4% <i>Legionella</i> spp.: 1–1000 CFU/500mL <i>Legionella</i> spp.: 9.2% (50–5000 CFU/500mL) <i>P. aeruginosa</i> : 10.8% (5–2500 CFU/500mL)	Culture	N/A	Germany	2007	[132]
DWDS	Municipal water	<i>Mycobacterium</i> spp.	Water: 70% *	Culture	N/A	Australia	2008	[136]

House	Shower	<i>Legionella</i> spp.	Water: 16.1% shower * 1 boiler tank *	Culture and molecular	N/A	Brazil	2005	[141]
House	Tap Shower	<i>Legionella</i> spp.	Water: 32.3% negative by all methods * 2.9% positive by all methods * 41.2% positive by PCR only * 23.5% positive by FISH and PCR *	Culture and molecular	N/A	Germany*	2002 ^f	[147]
House	Water	<i>L. pneumophila</i>	Water: Residential water linked to 2 clinical cases (10–100 CFU/mL)	Culture	N/A	Turkey*	2016 ^f	[155]
House	Shower	<i>M. avium</i>	Biofilm and water: Residential shower linked to 1 clinical isolate (2–240 CFU/mL ⁻¹)	Culture	N/A	USA	2002	[156]
House	Water	<i>L. pneumophila</i>	Water: Residential water linked to 1 clinical case (10^8 CFU/L)	Culture	N/A	Netherlands *	1993	[157]
House	Shower Tap	<i>Legionella</i> spp.	Water: 65% (1–4000 CFU/mL)	Culture	N/A	Germany	1993 ^f	[158]
House	Tap	<i>L. pneumophila</i>	Water: Residential water linked to 1 clinical case (3×10^4 CFU/L)	Culture	N/A	Israel	2012	[159]
House	Tap	<i>L. pneumophila</i>	Water: Residential water linked to 1 clinical case ($2.9\text{--}7.2 \times 10^4$ CFU/L)	Culture	N/A	Korea*	2016	[160]

House	Shower	<i>L. pneumophila</i>	Water: Shower water linked to 1 clinical case (1.95×10^4 CFU/L)	Culture	N/A	Switzerland	1999	[161]
House	Shower	<i>L. pneumophila</i>	Water: Shower linked to 1 clinical case (2.54 CFU/mL)	Culture	N/A	USA	2018	[162]
House	Tap Shower	<i>Legionella</i> spp.	Water: Hot water tank linked to 1 clinical case (400–2000 CFU/mL)	Culture	N/A	USA*	1987 ^f	[163]
House	Water	<i>Legionella</i> spp.	Water: Municipal water linked to 8 clinical cases (1×10^4 – 6×10^5 CFU/L)	Culture	N/A	USA	1992 ^f	[164]
House	Tap	<i>L. pneumophila</i>	Water: Residential water linked to 1 clinical case (500 – 4.5×10^4 CFU/L)	Culture	N/A	Australia	2003	[165]
Dormitory	Tap	<i>Legionella</i> spp.	Water: 50% (5–68 CFU/L)	Culture	N/A	Germany	1999	[171]
House	Water meter	<i>Mycobacterium</i> <i>Pseudomonas</i>	Biofilm: <i>Mycobacterium</i> spp.: 93%* <i>Pseudomonas</i> spp.: 100%*	Molecular	N/A	China	2014	[172]
House	Tap Shower	MAC	Water: <i>Mycobacterium</i> spp.: 17%* MAC: 2%*	Culture	N/A	USA	1992 ^f	[173]
House	Tap Drain	<i>P. aeruginosa</i>	Biofilm: Sink: 6.1%* Tap: 4.7%*	Culture	N/A	England*	1972 ^f	[174]

House	Hot water system	<i>Legionella</i> spp.	Water: (250-10 ⁴ CFU/L) Culture Hot water: 6.5% Mixed water: 5.6% IFA Hot water: 41% Mixed water: 52%	Culture and molecular	N/A	France	2006	[175]
House	Tap Shower	<i>Mycobacterium</i> spp.	Water: <i>M. chimaera</i> : 73%* MAC: 19.5%*	Culture	N/A	USA	2013 ^f	[176]
House	Shower	<i>Methylobacteriu</i> m spp.	Not specified	Culture	N/A	USA*	2012 ^f	[177]
House	Tap	<i>M. avium</i>	Water: 12.5%*	Culture	N/A	USA	2002 ^f	[178]
House	Shower Tap	<i>Legionella</i> spp.	Water: 20.5%*	Culture	N/A	Netherlands	2003	[179]
House	Tap	<i>Acinetobacter</i> spp.	Not specified	Culture	N/A	Portugal*	2009	[180]
House	Tap Shower	NTM	Water: 65%*	Culture	N/A	Netherlands	2010 ^f	[181]
House	Tap	<i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp.	Water: <i>Pseudomonas</i> spp.: 2.2%* <i>Acinetobacter</i> spp.: 4.4%*	Molecular	N/A	Belgium	2013	[182]
House	Tap Shower	<i>Mycobacterium</i> spp.	Water: Case residence: Bathroom tap: 23%* Kitchen tap: 23%* Shower aerosol: 18%* Control residence: Bathroom tap: 11%* Kitchen tap: 14%* Shower aerosol: 6%*	Culture	N/A	USA	2011	[183]
House	Bath	<i>L. pneumophila</i>	Water:	Culture	N/A	Japan	2018 ^f	[184]

Bath water linked to 1 clinical case*								
<i>Pseudomonas</i> spp. <i>Mycobacterium</i> spp. <i>Methylobacteriu</i> <i>m</i> spp.								
House	Water storage		Not specified	Culture	N/A	Lebanon	2004 ^f	[185]
House	Shower Tap	NTM	Water: 40% (27 to 1.7 × 10 ⁴ CFU/mL)	Molecular	N/A	USA	2011	[186]
House	Shower Tap	NTM	Water: Residential water linked to 35% of clinical cases*	Culture	N/A	Australia	2013 ^f	[187]
House	Bath	<i>M. avium</i>	Water: Bath water linked to 1 clinical case*	Culture and molecular	N/A	Japan*	2001	[188]
House	Tap Shower	<i>L. pneumophila</i>	Water: 6.2%*	Culture	N/A	USA	1992	[189]
House	Tap Shower Hot water tank	<i>L. pneumophila</i>	Water: 6.4%*	Culture	N/A	USA	1992 ^f	[190]
House	Tap	<i>Legionella</i> spp. <i>P. aeruginosa</i> <i>Acinetobacter</i> spp. <i>Aeromonas</i> spp.	Water: 77.5% (<200 CFU/mL) <i>P. aeruginosa</i> : 19.8%* <i>Acinetobacter</i> spp.: 13.5%* <i>Aeromonas</i> spp.: 16.2%*	Culture	N/A	Poland	2007-2010	[191]
House	Tap Water storage	<i>Legionella</i> spp.	Water: 5% *	Culture	N/A	Canada	1992	[192]
House	Tap Drain	<i>Pseudomonas</i> spp.	Biofilm: Tap: 1.2%* Sink: 2%*	Culture	N/A	Scotland*	1991	[193]

House	Water	<i>A. hydrophila</i>	Water: 64.28%*	Culture	N/A	Saudi Arabia	1985	[194]
House	Tap Shower	<i>Legionella</i> spp.	Water: 74%*	Culture	N/A	USA	2009	[195]
			Biofilm: Kitchen sink: 24%*					
			Kitchen drain: 40%*	Culture	N/A	USA	2006	[196]
			Bathroom sink: 21%*					
			Bath: 47%*					
			Biofilm: Drain: 2.2%*	Culture	N/A	United Kingdom	1982 ^f	[197]
			Tap: 10.9%*					
			Water: 8.1%*					
House	Tap	<i>Legionella</i> spp.	Water: 89.5% (5.45 CFU/mL)	Culture	N/A	Germany	1999 ^f	[198]
House	Shower	<i>Mycobacterium</i> spp.	Biofilm: 78.5% (15 - 5.6x10 ⁶ CFU/cm ²)	Culture	N/A	Germany	1992	[199]
			Biofilm: Bath drain: 12.4%*					
			Bath tap: 14.3%*					
			Shower drain: 17.6%*	Culture	N/A	Belgium	2005	[200]
			Showerhead: 0%*					
			Kitchen drain: 5%*					
			Kitchen tap: 4.5%*					
House	Shower	<i>M. avium</i>	Biofilm: 93% (10 ² –10 ¹⁰ CFU/L)	Molecular	N/A	United Kingdom	2011	[201]
House	Water heater	<i>Legionella</i> spp.	Water: 6.6% houses *	Culture	N/A	USA	2016	[202]
			Shower					
			Tap					
			Drain					
			Ice					
			dispenser					
House	Tap	<i>P. aeruginosa</i>	Biofilm: 48.6% *	Culture	N/A	USA	2007	[203]
			Water:	Culture	N/A	Germany	2004 ^f	[204]

		Drain	71.6% *					
House	Water	<i>Methylobacterium</i> spp.	Not specified	Molecular	N/A	United Kingdom	2013 ^f	[205]
House	Dishwasher	<i>Pseudomonas</i> spp. <i>Acinetobacter</i> spp.	Not specified	Molecular	N/A	Slovenia	2018 ^f	[206]
House	Drain	<i>P. aeruginosa</i>	Biofilm: 28% *	Molecular	N/A	USA	2012	[207]
House	Water	<i>Legionella</i> spp.	Water: 24.1% (3.75–415.5 CFU/mL)	Culture	N/A	USA	2019 ^f	[208]
House	Tap	<i>P. aeruginosa</i>	Water: 12% (2–100 CFU/100mL)	Culture	N/A	Cyprus	2013	[209]
House	Shower	<i>L. pneumophila</i>	Water: Residential shower linked to 1 clinical case *	Molecular	N/A	Italy	1985	[210]
House	Tap	<i>Acinetobacter</i> spp. <i>P. aeruginosa</i>	Not specified	Culture	N/A	Nigeria	2008 ^f	[211]
House	Water	<i>Legionella</i> spp.	Water: 25% (10^3 cells/mL)	Culture	N/A	Germany*	1996 ^f	[212]
House	Drain Tap Shower	<i>P. aeruginosa</i>	Biofilm: (>1 CFU/ 10 cm^2) Kitchen tap: 7.2% Kitchen sink: 12.9% Drain: 27.1% Bathroom faucet: 2.3% Bath: 1.2%	Culture	N/A	Japan	2002 ^f	[213]
House	Drain Shower Tap	<i>P. aeruginosa</i>	Not specified	Culture	N/A	Japan	1999	[214]
House	Water	<i>Aeromonas</i> spp.	Water: 20% *	Culture	N/A	South Africa	2006	[215]
House	Tap Shower Drain	MAC	Biofilm: 5.4% shower * 4% bath drain *	Culture	N/A	Japan*	2007 ^f	[216]

			Water: 6.5% shower water *					
			6.25% bath water *					
Apartment	Water	<i>Legionella</i> spp.	Water: 42.9% (10^2 – 10^4 CFU/L)	Culture	N/A	Italy	2009	[217]
House	Tap Shower Bath	<i>Legionella</i> spp.	Water: 36.7% ($>10^2$ CFU/L)	Culture	N/A	Italy	2005	[218]
House	Water	<i>Mycobacterium leprae</i>	Water: 24.2% *	Molecular	N/A	India	2016 ^f	[219]
House	Water	<i>Aeromonas</i> spp.	Water: 3.7% houses (5 CFU/mL)	Culture	N/A	Japan	2011	[220]
House	Drain	<i>P. aeruginosa</i>	Biofilm: 100% (<4 – $9.52 \log_{10}$ CFU)	Culture and molecular	N/A	United Kingdom	2003 ^f	[221]
House	Bath Shower	<i>M. avium</i>	Water: Residential water linked to 1 clinical case *	Culture	N/A	Canada	2005 ^f	[222]
House	Water	<i>L. pneumophila</i>	Not specified	Culture	N/A	Canada	2021 ^f	[223]
DWDS	Biofilm	<i>Mycobacterium</i> spp.	Biofilm: 100% *	Molecular	N/A	Sweden	2011	[224]
House	Water	<i>Legionella</i> spp.	Water: Residential water linked to 1 clinical (1 – 2×10^4 CFU/L $^{-1}$)	Culture	N/A	Germany	2004	[225]
House	Tap	<i>Aeromonas</i> spp. <i>Mycobacterium</i> spp.	Biofilm and Water: Aeromonas spp.: 90% * <i>Mycobacterium</i> spp.: 60% *	Culture and molecular	N/A	Netherlands	2017 ^f	[226]
House	Water purifier	<i>P. aeruginosa</i>	Not reported	Molecular	N/A	Germany*	2020 ^f	[227]
House	Shower	<i>Legionella</i> spp.	Biofilm:	Molecular	N/A	Switzerland	2011	[228]

		<i>Mycobacterium</i> spp.	<i>Legionella</i> spp.: 12.5% *					
			<i>Mycobacterium</i> spp.: 6.25% *					
			Water: <i>Legionella</i> spp.: 23% *					
			<i>Mycobacterium</i> spp.: 10.4% *					
			Water:					
House	Tap	<i>Aeromonas</i> spp.	<i>Aeromonas</i> spp.: 4% houses *	Culture	N/A	Canada	1992	[229]
			Water: <i>Legionella</i> spp.: 30.5% (25–9.75 × 10^4 CFU/L ⁻¹)	Culture	N/A	Italy	2005	[230]
	Hot water system	<i>P. aeruginosa</i>	<i>P. aeruginosa</i> : 7.1% (4–8.2 × 10 ³ CFU/100mL)					
House	Tap	<i>Mycobacterium</i> <i>canariense</i>	Water: 47.4% *	Culture	N/A	Spain	2014	[231]
			Biofilm: 56.8% kitchen sink tap *					
	Tap		41.7% bathroom taps *					
House	Shower Ice dispenser	<i>M. avium</i>	37.1% shower heads *	Culture	N/A	USA	2012	[232]
			37.9% shower pipes *					
			14.2% ice dispensers *					
			Water: 47.8% (15 – 370 CFU/100 mL)	Culture	N/A	Japan	2014	[233]
			Biofilm: 18.9% *					
House	Tap	<i>P. aeruginosa</i>	Water: 12% *	Culture	N/A	Germany*	2001	[234]
House	Rainwater	<i>L. pneumophila</i>	Water	Molecular	N/A	USA	2013	[235]

			<i>M. avium</i>	<i>L. pneumophila</i> :					
				8.7% ($2.9 \log_{10}$ genomic targets/L)					
				<i>M. avium</i> : 30% ($3.9 \log_{10}$ genomic targets/L)					
House	Tap		<i>L. pneumophila</i>	Water: 1.9% *	Culture	N/A	England	1987 ^f	[236]
				Water:					
House	Hot water heater		<i>L. pneumophila</i>	Electric heater: 30% *	Culture	N/A	Canada	1985 ^f	[237]
				Oil/gas heater: 6% *					
House	Tap Shower		<i>L. pneumophila</i>	Water: Tap: 1 isolate *	Molecular	N/A	China	2014	[238]
House	Rainwater		<i>Pseudomonas</i> spp.	Water: Dry season: 9% * Wet season: 91% *	Culture	N/A	Bangladesh	2009	[239]
House	Bath		<i>L. pneumophila</i>	Water: Bath water linked to 1 clinical case *	Culture	N/A	Japan*	2012 ^f	[240]
House	Water		<i>Legionella</i> spp. <i>Mycobacterium</i> spp.	Water: <i>Legionella</i> spp.: 72% * <i>Mycobacterium</i> spp.: 67% *	Molecular	N/A	USA	2020 ^f	[241]
House	Drain Bath Shower		<i>Mycobacterium</i> spp.	Biofilm: 96.5% drains (< 10^1 – 10^7 cells/cm 2) 44.4% baths (< 10^1 – 10^7 cells/cm 2) 48.7% kitchen drains (< 10^1 – 10^7 cells/cm 2) 13% inner shower head (< 10^1 – 10^5 cells/cm 2) 2.5% outer showerhead (< 10^1 – 10^2 cells/cm 2)	Molecular	N/A	Japan	2014 ^f	[242]
House	Shower		<i>M. avium</i>	Water:	Culture	N/A	USA	2016	[243]

				11% *					
House	Tap	<i>Methylobacteriu m</i> spp.		Water: 12% *	Molecular	N/A	USA	2015 ^f	[244]
House	Tap Shower Drain	NTM		Biofilm: Showerhead: 69%* Kitchen: 59% * Bathroom: 67% *	Molecular	N/A	USA	2013	[245]
House	Shower	NTM		Water: Shower water linked to 1 clinical case *	Culture	N/A	USA*	2011 ^f	[246]
House	Tap	NTM <i>P. aeruginosa</i> <i>S. maltophilia</i>		Biofilm & water: NTM: 100% * <i>P. aeruginosa</i> : 100% * <i>S. maltophilia</i> : 100% *	Molecular	N/A	USA	2016	[247]
House	Tap	NTM		Water: 100% *	Molecular	N/A	USA	2016	[248]
House	Tap Shower	MAC		Water: NTM: 93% houses MAC: 21% houses (1- 1 × 10 ³ CFU/500 ⁻¹ mL)	Culture	N/A	USA	1994 ^f	[249]
House	Spa Shower Tap	<i>P. aeruginosa</i>		Water: 18.2% (100–500 CFU/250mL)	Culture	N/A	Italy*	2009	[250]
House	Shower	<i>Mycobacterium</i> spp.		Biofilm: 13.5% *	Molecular	N/A	USA	2016	[251]
House	Tap	<i>L. pneumophila</i>		Water: 6% *	Culture	N/A	USA	2016	[252]
House	Water	<i>Mycobacterium</i> spp.		Water: 81.9% (10 ² –10 ³ CFU/L)	Culture	N/A	Germany	1991 ^f	[253]
House	Water	<i>A. baumannii</i> <i>P. aeruginosa</i>		Water: <i>A. baumannii</i> : 80% * <i>P. aeruginosa</i> : 85% *	Culture	N/A	Pakistan	2004	[254]

House	Tap Shower	NTM	Biofilm: 28% * Water: 24% *	Culture	N/A	USA	2011 ^f	[255]
House	Spa Garden hose	<i>Legionella</i> spp.	Water: Spa and garden hose linked to 3 clinical isolates *	Culture	N/A	Netherlands	2009	[256]
House	Water	<i>P. aeruginosa</i>	Water: Bathroom linked to one clinical case *	Molecular	N/A	Japan*	2013 ^f	[257]
House	Tap Shower Hot water tank	<i>L. pneumophila</i>	Water: 33% houses Residential water linked to 14% of clinical cases *	Culture	N/A	Canada	2012 ^f	[258]
House	Water	NTM	Water: 11.2% *	Culture	N/A	Greece	2013	[259]
House	Tap	<i>L. pneumophila</i>	Water: $>1 \times 10^4$ CFU/L)	Culture and molecular	N/A	USA	2010	[260]
House	Water	<i>Legionella</i> spp. <i>P. aeruginosa</i>	Water: <i>Legionella</i> spp.: 30% (200–2650 CFU/L) <i>P. aeruginosa</i> : 50% (<1 CFU/100mL)	Culture	N/A	Italy*	2015 ^f	[261]
DWDS	Municipal water	<i>Mycobacterium mucogenicum</i>	Water: Incoming municipal water linked to one clinical case*	Culture	N/A	Canada*	2017 ^f	[262]
House	Water	<i>L. pneumophila</i>	Water: Hot water tank: 33% (1–100 CFU/mL) Bath: 4% (<50 CFU/mL) Biofilm: 40.9%*	Culture	N/A	Canada	1984	[263]
House	Shower Tap Drain	<i>Stenotrophomonas maltophilica</i>	Biofilm: Tap: 36.3%* Drain: 72%*	Culture	N/A	United Kingdom	1996	[264]

House	Water	<i>P. aeruginosa</i>	Water: 89.5% (4–130 CFU/100mL)	Culture	N/A	Mexico*	2001 ^f	[265]
House	Shower head	<i>Mycobacterium</i> spp.	Biofilm: 100%*	Molecular	N/A	Singapore	2020 ^f	[266]
House	Shower	<i>L. pneumophila</i>	Water: continuously detected for 2.5 yrs (380–600 CFU/L)	Culture	N/A	United Kingdom	2005	[267]
Building	Tap	<i>L. pneumophila</i>	Water: 2.4% (2×10^2 to 3×10^4 CFU/L)	Culture	N/A	England	1986	[268]
DWDS	Municipal water	<i>L. pneumophila</i>	Water: 25% of pre flush* 50% flushed (1–2100 CFU/25·2mL)	Culture	N/A	USA	2011	[269]
House	Water	<i>Legionella</i> spp.	Water: 8% patient houses (1.3×10^2 to 2.7 $\times 10^4$ CFU/L) 19% control houses (2.3×10^2 to 5.5 $\times 10^4$ CFU/L)	Culture and molecular	N/A	Spain	2000	[270]
House	Tap	<i>P. aeruginosa</i>	Not specified	Culture	N/A	India	2012	[271]
House	Tap	<i>L. pneumophila</i>	Water: Residential water linked to 1 clinical case *	Culture	N/A	China*	2002 ^f	[272]
House	Tap	<i>Methylobacteriu</i> m spp.	Not specified	Culture	N/A	Norway	2019 ^f	[273]
House	Tap	<i>A. hydrophila</i> <i>P. aeruginosa</i>	Water: <i>P. aeruginosa</i> : 100% sites * <i>A. hydrophila</i> : 33% sites *	Molecular	N/A	India	2013	[274]
House	Water	<i>P. aeruginosa</i>	Water: 15% (1–975 CFU/100mL)	Culture	N/A	Mexico	2004	[275]
House	Rainwater	<i>P. aeruginosa</i>	Water: 28% (1–100 CFU/100mL)	Culture	N/A	Mexico	1999 ^f	[276]

House	Tap	<i>Helicobacter pylori</i>	Water: 12.2% *	Molecular	N/A	Peru	2017	[277]
House	Water	<i>Aeromonas</i> spp.	Water: 33.3% *	Culture	N/A	Australia	1984 ^f	[278]
			Water: 19.6% *(5×10^1 – 26.6×10^3 CFU/mL)					
House	Shower	<i>L. pneumophila</i>	Biofilm: 6.5% (2.9×10^3 – 28.6×10^3 CFU/mL)	Culture	N/A	Turkey	2009 ^f	[279]
House	Water	<i>Legionella</i> spp.	Residential water linked to 28 clinical cases *	Culture	N/A	Germany	2016- 2019	[280]
House	Water	NTM	Water: 60% (300 CFU/L)	Culture	N/A	Italy	2010 ^f	[281]
			Water: <i>Pseudomonas</i> spp.: 38.4% (1 to 6.4×10^4 CFU/100mL)					
House	Shower Tap	<i>Legionella</i> spp. <i>Pseudomonas</i> spp.	<i>Pseudomonas</i> spp.: 10 ⁴ CFU/100mL <i>Legionella</i> spp.: 22.6% (25 to 8.7×10^4 CFU/L)	Culture	N/A	Italy	2002	[282]
House	Tap	<i>Acinetobacter</i> spp. <i>Aeromonas</i> spp. <i>P. aeruginosa</i>	Water: <i>Aeromonas</i> spp.: 12% * <i>Acinetobacter</i> spp.: 1–8% * <i>P. aeruginosa</i> : 6– 40% *	Culture	N/A	Pakistan	1991 ^f	[283]
House	Tap	<i>A. baumannii</i>	Not specified	qPCR	N/A	Cameroon	2014	[284]
House	Water	<i>Aeromonas</i> spp. <i>Legionella</i> spp. <i>Pseudomonas</i> <i>fluorescens</i>	Not specified	Culture	N/A	South Africa	1995 ^f	[285]
House	Water	<i>Mycobacterium</i> spp.	Water:	Culture	N/A	USA	1996	[286]

			NTM: 82% house water* MAC: 22% house water (1–10 ³ CFU/500mL) <i>M. avium</i> : 5% house water* <i>Mycobacterium intracellulare</i> : 13% house water *					
House	Hot water system Tap	<i>L. pneumophila</i>	Water: (1–10 ⁴ CFU/L) 32% hot water Biofilm: 100% tap *	Culture	N/A	USA	1982	[287]
House	Shower Bath	<i>Mycobacterium avium</i> subsp. <i>homissuis</i>	Biofilm: 33.3% of bath inlet * 4% drain Water: 5.4% of shower *	Culture	N/A	Japan	2019	[288]
House	Tap	<i>P. aeruginosa</i>	Water: 23.3% * Biofilm: 11.9% shower heads *	Culture	N/A	United Arab Emirates	2015	[289]
House	Tap Water heater Shower	<i>L. pneumophila</i>	Water: 17.7% hot water heaters * 19.4% taps * 23% shower heads *	Culture and Immunofluorescence	N/A	Canada*	1989	[290]
House	Water heater Tap Shower	<i>Legionella</i> spp.	Water: 37% hot water heaters * 15% showers * 12% taps *	Culture	N/A	Canada	1991 ^f	[291]

^a Abbreviations: *Mycobacterium avium* complex, MAC; Non-tuberculous mycobacteria, NTM .

b Abbreviations: Fluorescence in situ hybridization, FISH; Immunofluorescence assay, IFA; Polymerase chain reaction, PCR; Point of use, POU; Colony forming unit, CFU. Where the concentration of pathogen was not specified in the article, it was denoted with an asterisk (*).

c Abbreviations: Quantitative polymerase chain reaction, qPCR; drinking water distribution systems (DWDS).

d Abbreviations: Amoxicillin-clavulanic acid, AMC; Ampicillin, AMP; Amoxicillin, AMX; Aztreonam, ATM; Azithromycin, AZM; Ceftazidime, CAZ; Cephalothin, CEF; Cefazolin, CFZ; Chloramphenicol, CHL; Ciprofloxacin, CIP; Cloxacillin, CLOXA; Clarithromycin, CLR; Colistin, COL; Co-trimoxazole, COT; Ceftriaxone, CRO; Cefotaxime, CTX; Doxycycline, DOX; Erythromycin, ERY; Cefoxitin, FOX; Gentamicin, GEN; Imipenem, IPM; Levofloxacin, LVX; Multidrug resistant, MDR; Meropenem, MEM; Minimum inhibitory concentration, MIC; Minocycline, MIN; Moxifloxacin, MXF; Nalidixic acid, NAL; Netilmicin, NET; Penicillin, PEN; Piperacillin, PIP; Polymyxin B, PMB; Resistant, R; Rifampin, RIF; Streptomycin, STR; Trimethoprim-sulfamethoxazole, SXT; Tetracycline, TET; Tigecycline, TGC; Ticarcillin, TIC; Tobramycin, TOB; Biomerieux identification and antibiotic susceptibility testing instrument, VITEK-2; Not applicable, N/A; ^R, Antimicrobial resistance; ^S, Antimicrobial sensitivity; ^I, Intermediate antimicrobial resistance.

e In countries where the study location was not specified in the article, it was assumed that the country of origin was denoted by the country of the authors.

f Where the year of study was not specified in the article, it was assumed that the year of research was denoted by the year of publication.

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