

Landfill Leachate – 2021-06-02

Sample Overview

Site	Landfill Leachate
Date sampled	2021-06-02
Report type	Standard WW

qPCR Results

Test	Copy no.	%
bacF (Total Bacteria 1)	522866	100.0%
thau1 (Thauera Group 1)	7847	1.5%
thau2 (Thauera Group 2)	127427	24.4%

Bacteria

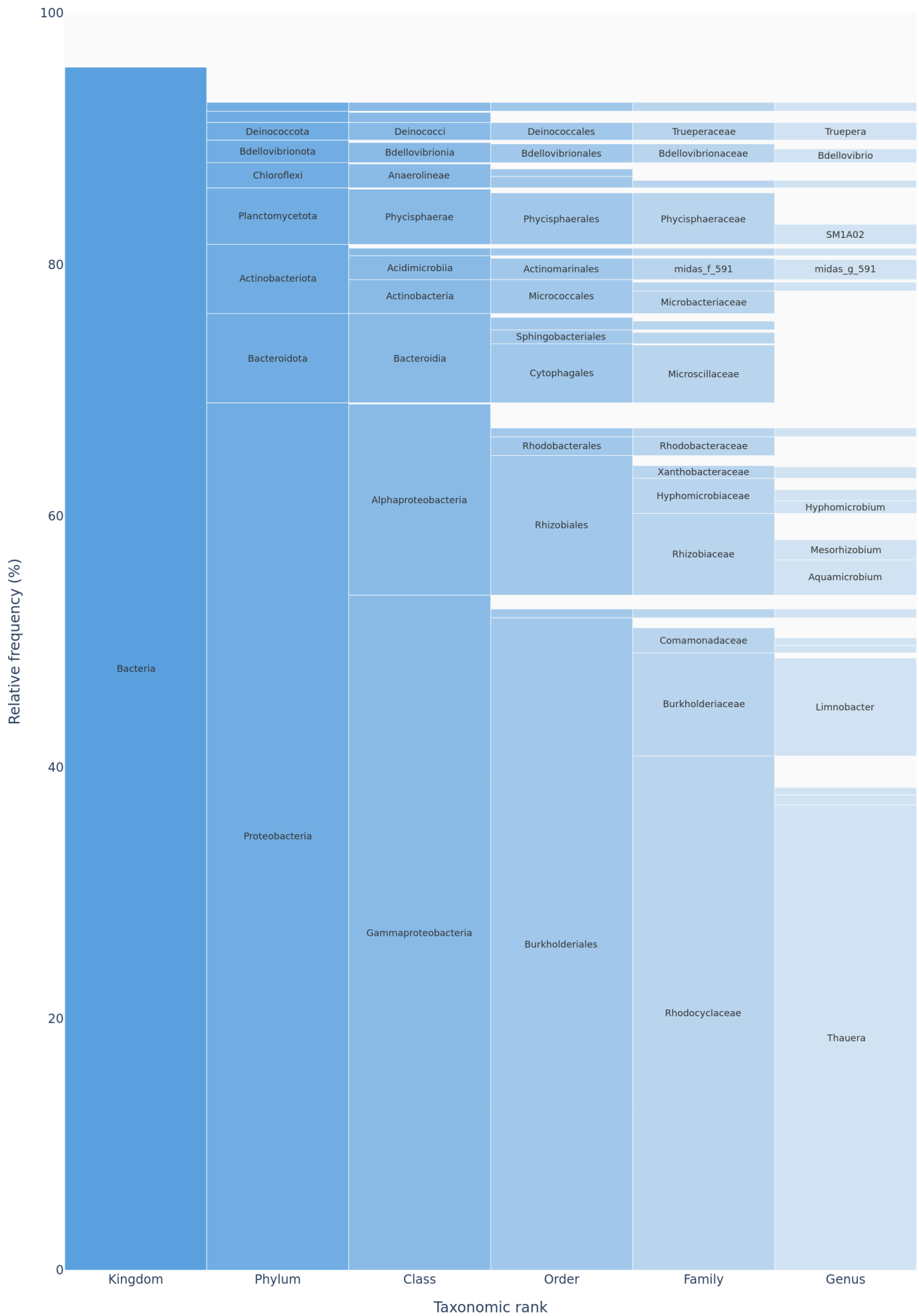
Kingdom	Phylum	Class	Order	Family	Genus	Rel. freq. %
Bacteria	—	—	—	—	—	0.3%
Bacteria	Acidobacteriota	Acidobacteriae	Bryobacterales	Bryobacteraceae	Bryobacter	0.1%
Bacteria	Acidobacteriota	Acidobacteriae	Paludibaculum	midas_f_675	midas_g_42266	0.1%
Bacteria	Acidobacteriota	Blastocatellia	Blastocatellales	Blastocatellaceae	—	0.2%
Bacteria	Acidobacteriota	Vicinamibacteria	Vicinamibacterales	midas_f_352	midas_g_991	0.1%
Bacteria	Actinobacteriota	—	—	—	—	0.2%
Bacteria	Actinobacteriota	Acidimicrobiia	Actinomarinales	midas_f_591	midas_g_4688	0.1%
Bacteria	Actinobacteriota	Acidimicrobiia	Actinomarinales	midas_f_591	midas_g_591	1.6%
Bacteria	Actinobacteriota	Acidimicrobiia	IMCC26256	midas_f_2	—	0.1%
Bacteria	Actinobacteriota	Acidimicrobiia	Microtrichales	Ilumatobacteraceae	Ilumatobacter	0.1%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	—	—	0.1%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Brevibacteriaceae	Brevibacterium	0.1%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Intrasporangiaceae	Tetrasphaera	0.7%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Microbacteriaceae	—	1.1%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Microbacteriaceae	Galbitalea	0.2%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Microbacteriaceae	Leucobacter	0.3%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Microbacteriaceae	Microbacterium	0.1%
Bacteria	Actinobacteriota	Actinobacteria	Micrococcales	Microbacteriaceae	Parafrigoribacterium	0.1%
Bacteria	Actinobacteriota	Rubroacteria	Rubroacterales	Rubroacteriaceae	Rubroacter	0.6%
Bacteria	Actinobacteriota	Thermoleophilia	Solirubroacterales	67-14	midas_g_52	0.1%
Bacteria	Bacteroidota	Bacteroidia	Chitinophagales	—	—	0.1%
Bacteria	Bacteroidota	Bacteroidia	Chitinophagales	Chitinophagaceae	—	0.5%
Bacteria	Bacteroidota	Bacteroidia	Chitinophagales	Chitinophagaceae	Taibaiella	0.2%
Bacteria	Bacteroidota	Bacteroidia	Chitinophagales	Saprospiraceae	Portibacter	0.1%
Bacteria	Bacteroidota	Bacteroidia	Chitinophagales	Saprospiraceae	midas_g_1838	0.1%
Bacteria	Bacteroidota	Bacteroidia	Cytophagales	Microscillaceae	—	4.1%
Bacteria	Bacteroidota	Bacteroidia	Cytophagales	Microscillaceae	midas_g_48792	0.4%
Bacteria	Bacteroidota	Bacteroidia	Cytophagales	Microscillaceae	midas_g_5053	0.1%
Bacteria	Bacteroidota	Bacteroidia	Cytophagales	Spirosomaceae	Persicitalea	0.1%
Bacteria	Bacteroidota	Bacteroidia	Flavobacteriales	Cryomorphaceae	Vicingus	0.2%
Bacteria	Bacteroidota	Bacteroidia	Flavobacteriales	Flavobacteriaceae	Flavobacterium	0.1%
Bacteria	Bacteroidota	Bacteroidia	Sphingobacteriales	—	—	0.2%
Bacteria	Bacteroidota	Bacteroidia	Sphingobacteriales	NS11-12_marine_group	—	0.5%

Kingdom	Phylum	Class	Order	Family	Genus	Rel. freq. %
Bacteria	Bacteroidota	Bacteroidia	Sphingobacteriales	NS11-12_marine_group	midas_g_50227	0.4%
Bacteria	Bdellovibrionota	Bdellovibrionia	Bacteriovoracales	Bacteriovoracaceae	—	0.1%
Bacteria	Bdellovibrionota	Bdellovibrionia	Bdellovibrionales	Bdellovibrionaceae	—	0.4%
Bacteria	Bdellovibrionota	Bdellovibrionia	Bdellovibrionales	Bdellovibrionaceae	Bdellovibrio	1.1%
Bacteria	Bdellovibrionota	Oligoflexia	0319-6G20	midas_f_3092	—	0.1%
Bacteria	Bdellovibrionota	Oligoflexia	0319-6G20	midas_f_9443	midas_g_9443	0.1%
Bacteria	Chloroflexi	Anaerolineae	Anaerolineales	Anaerolineaceae	midas_g_50073	0.1%
Bacteria	Chloroflexi	Anaerolineae	Ardenticatenales	Ca_Promineofilaceae	Ca_Promineofilum	0.4%
Bacteria	Chloroflexi	Anaerolineae	Ardenticatenales	midas_f_39435	midas_g_39435	0.2%
Bacteria	Chloroflexi	Anaerolineae	Caldilineales	Caldilineaceae	—	0.1%
Bacteria	Chloroflexi	Anaerolineae	Caldilineales	Caldilineaceae	Litorilinea	0.1%
Bacteria	Chloroflexi	Anaerolineae	Caldilineales	Caldilineaceae	midas_g_2582	0.1%
Bacteria	Chloroflexi	Anaerolineae	SBR1031	A4b	—	0.1%
Bacteria	Chloroflexi	Anaerolineae	SBR1031	midas_f_1469	midas_g_2178	0.2%
Bacteria	Chloroflexi	Anaerolineae	SBR1031	midas_f_184	midas_g_184	0.6%
Bacteria	Chloroflexi	Chloroflexia	Thermomicrobiales	AKYG1722	midas_g_1212	0.1%
Bacteria	Dadabacteria	Dadabacteriia	Dadabacteriales	midas_f_603	midas_g_603	0.7%
Bacteria	Deinococcota	Deinococci	Deinococcales	Trueperaceae	Truepera	1.4%
Bacteria	Desulfobacterota	Desulfuromonadia	PB19	—	—	0.1%
Bacteria	Desulfobacterota	Desulfuromonadia	PB19	midas_f_1334	midas_g_49245	0.1%
Bacteria	Desulfobacterota	Desulfuromonadia	PB19	midas_f_58430	midas_g_58430	0.1%
Bacteria	Firmicutes	Bacilli	—	—	—	0.5%
Bacteria	Firmicutes	Bacilli	Bacillales	—	—	0.1%
Bacteria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	0.1%
Bacteria	Firmicutes	Bacilli	Paenibacillales	Paenibacillaceae	Paenibacillus	0.1%
Bacteria	Firmicutes	Clostridia	Eubacteriales	Eubacteriaceae	Acetobacterium	0.1%
Bacteria	Hydrogenedentes	Hydrogenedentia	Hydrogenedentiales	Hydrogenedensaceae	—	0.5%
Bacteria	Patescibacteria	ABY1	Ca_Magasanikbacteria	midas_f_44700	midas_g_44700	0.1%
Bacteria	Patescibacteria	Dojkabacteria	midas_o_546	—	—	0.1%
Bacteria	Patescibacteria	Saccharimonadia	Saccharimonadales	—	—	0.1%
Bacteria	Patescibacteria	Saccharimonadia	Saccharimonadales	Saccharimonadaceae	TM7a	0.1%
Bacteria	Planctomycetota	Phycisphaerae	Phycisphaerales	Phycisphaeraceae	—	2.4%
Bacteria	Planctomycetota	Phycisphaerae	Phycisphaerales	Phycisphaeraceae	SM1A02	1.6%
Bacteria	Planctomycetota	Phycisphaerae	Phycisphaerales	Phycisphaeraceae	midas_g_36898	0.1%
Bacteria	Planctomycetota	Phycisphaerae	mle1-8	midas_f_1686	—	0.3%
Bacteria	Planctomycetota	Planctomycetes	Pirellulales	Pirellulaceae	—	0.1%

Kingdom	Phylum	Class	Order	Family	Genus	Rel. freq. %
Bacteria	Proteobacteria	—	—	—	—	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	—	—	—	0.6%
Bacteria	Proteobacteria	Alphaproteobacteria	Acetobacterales	—	—	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Defluviococcales	Defluviococcaceae	Defluviococcus	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Kiloniellales	Fodinicurvataceae	midas_g_34634	0.2%
Bacteria	Proteobacteria	Alphaproteobacteria	Micavibrionales	midas_f_25039	midas_g_31560	0.7%
Bacteria	Proteobacteria	Alphaproteobacteria	Paracaedibacterales	Paracaedibacteraceae	Ca_Odysella	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	—	—	0.4%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Amb-16S-1323	midas_g_27435	0.2%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Devosiaceae	Devosia	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	—	0.9%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium	1.0%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	Pedomicrobium	0.9%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Methyloligellaceae	midas_g_12692	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	—	1.7%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Aquamicrobium	2.8%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Mesorhizobium	1.6%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Pseudaminobacter	0.2%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	Shinella	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Xanthobacteraceae	—	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Xanthobacteraceae	midas_g_1919	0.9%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	—	0.5%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Amaricoccus	0.4%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rhodobacter	0.4%
Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	Rubellimicrobium	0.2%
Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	—	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingobium	0.2%
Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Tistrellales	Geminicoccaceae	—	0.1%
Bacteria	Proteobacteria	Alphaproteobacteria	Tistrellales	Geminicoccaceae	midas_g_5706	0.2%
Bacteria	Proteobacteria	Alphaproteobacteria	midas_o_24	midas_f_107	midas_g_2332	0.1%
Bacteria	Proteobacteria	Gammaproteobacteria	—	—	—	0.2%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	—	—	0.4%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Alcaligenaceae	—	0.4%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Burkholderiaceae	—	0.1%

Kingdom	Phylum	Class	Order	Family	Genus	Rel. freq. %
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Burkholderiaceae	Lautropia	0.3%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Burkholderiaceae	Limnobacter	7.8%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Comamonadaceae	—	0.4%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Comamonadaceae	Hydrogenophaga	0.6%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Comamonadaceae	Ottowia	0.6%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Comamonadaceae	midas_g_81	0.4%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Rhodocyclaceae	—	2.3%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Rhodocyclaceae	Azoarcus	0.8%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Rhodocyclaceae	Denitromonas	0.1%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Rhodocyclaceae	Thauera	37.0%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Rhodocyclaceae	Zoogloea	0.1%
Bacteria	Proteobacteria	Gammaproteobacteria	Burkholderiales	Rhodocyclaceae	midas_g_26	0.6%
Bacteria	Proteobacteria	Gammaproteobacteria	Legionellales	Legionellaceae	Legionella	0.3%
Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	Acinetobacter	0.1%
Bacteria	Proteobacteria	Gammaproteobacteria	Run-SP154	midas_f_27	midas_g_3775	0.1%
Bacteria	Proteobacteria	Gammaproteobacteria	Steroidobacterales	Woeseiaceae	JTB255_marine_benthic_group	0.7%
Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Rhodanobacteraceae	—	0.2%
Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Thermomonas	0.1%
Bacteria	Proteobacteria	Gammaproteobacteria	midas_o_26	midas_f_116	midas_g_37891	0.1%
Bacteria	Verrucomicrobiota	Verrucomicrobiae	Verrucomicrobiales	DEV007	midas_g_2947	0.3%
Bacteria	WPS-2	midas_c_206	midas_o_395	midas_f_547	midas_g_17586	0.5%

Relative frequencies may not sum to 100% due to rounding and low-abundance filtering (< 0.10%). Filtered cumulative relative frequency: 4.92%.



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