Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking Label	ID	Description/G
	Colour Code Legend field name in yellow = required					IMPORTANT: Only labels and/or IDs will be	Labor		uidance
	field name in purple = recommended					deprecated, always with replacement version			
	field name in white = optional					provided. If a term changes in its meaning, a new term will be created.			
Sample collection and processing		GENEPIO:0001150							
processing		GENEI 10.0001130		The sample_ID should represent the	ABCD123				
				identifier assigned to the sample at time of collection, for which all the descriptive					
				information applies. If the original					
			The user-defined name for the	sample_ID is unknown or cannot be provided, leave blank or provide a null					
Sample collection and processing	sample_collector_sample_ID	GENEPIO:0001123	sample.	value.			3.0.0	3.0.0	3.0.0
				Alternative identifiers assigned to the	ABCD1234[PHAC]; 12345rev[CFIA]				
				sample should be tracked along with original IDs to establish chain of custody.					
				Alternative sample IDs should be provided					
				in the in a prescribed format which consists of the ID followed by square					
				brackets (no space in between the ID and					
				bracket) containing the short form of ID provider's agency name i.e. ID[short					
				organization code]. Agency short forms					
				include the following: Public Health Agency of Canada: PHAC					
				Canadian Food Inspection Agency: CFIA					
				Agriculture and Agri-Food Canada: AAFC Fisheries and Oceans Canada: DFO					
				Environment and Climate Change					
				Canada: ECCC Health Canada: HC					
				Multiple identifiers can be provided and					
			An alternative counts ID	separated by semi-colons. If the					
			An alternative sample_ID assigned to the sample by	information is unknown or cannot be provided, leave blank or provide a null					
Sample collection and processing	alternative_sample_ID	GENEPIO:0100427	another organization.	value.	5 10 11 10 1		3.0.0	3.0.0	3.0.0
				Provide the name of the agency, organization or institution that collected the	Public Health Agency of Canada (PHAC)				
			The many of the annual action	sample in full (avoid abbreviations). If the	[GENEPÌO:0100551]				
			The name of the organization with which the sample	information is unknown or cannot be provided, leave blank or provide a null					
Sample collection and processing	sample_collected_by	GENEPIO:0001153	collector is affiliated.	value.			3.0.0	3.0.0	3.0.0
				Provide the name of the specific laboratory that collected the sample (avoid	Topp Lab				
			The specific laboratory	abbreviations). If the information is					
Sample collection and processing	sample_collected_by_laboratory_name	GENEPIO:0100428	affiliation of the sample collector.	unknown or cannot be provided, leave blank or provide a null value.			3.0.0	3.0.0	3.0.0
			The name of the	Provide the name of the project and/or the	Watershed Project (HA-120				
			project/initiative/program for which the sample was	project ID here. If the information is unknown or cannot be provided, leave					
Sample collection and processing	sample_collection_project_name	GENEPIO:0100429	collected.	blank or provide a null value. Provide the name of the sample plan used	National Migratial and		3.0.0	3.0.0	3.0.0
Sample collection and processing	comple plan name	GENEPIO:0100430	The name of the study design for a surveillance project.		Chicken		3.0.0	3.0.0	3.0.0
Sample collection and processing	_sample_plan_name	GLINEFIO.0100430	ioi a surveillance project.	Provide the identifier of the sample plan	2001_M205		5.0.0	5.0.0	3.0.0
			The identifier of the study	used for sample collection. If the information is unknown or cannot be					
			design for a surveillance	provided, leave blank or provide a null					
Sample collection and processing	sample_plan_ID	GENEPIO:0100431	project.	value. Provide the name of an individual or their	Enterios I ah Managar		3.0.0	3.0.0	3.0.0
				job title. As personnel turnover may render	Emerics Lab Manager				
				the contact's name obsolete, it is more preferable to provide a job title for					
				ensuring accuracy of information and					
			The name or job title of the contact responsible for follow-	institutional memory. If the information is unknown or cannot be provided, leave					
Sample collection and processing	sample_collector_contact_name	GENEPIO:0100432	up regarding the sample.	blank or provide a null value.			3.0.0	3.0.0	3.0.0

				Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more preferable to provide an address for	johnnyblogs@lab.ca			
			The email address of the	a position or lab, to ensure accuracy of information and institutional memory. If the information is unknown or cannot be				
Sample collection and processing	sample_collector_contact_email	GENEPIO:0001156	contact responsible for follow- up regarding the sample.	provided, leave blank or provide a null value.		3.0.0	3.0.0	3.0.0
				The reason a sample was collected may provide information about potential biases	Surveillance [GENEPIO:0100004]			
				in sampling strategy. Provide the purpose of sampling from the picklist in the				
				template. Most likely, the sample was collected for Diagnostic testing. The				
				reason why a sample was originally collected may differ from the reason why it was selected for sequencing, which should				
Sample collection and processing	nurnose of campling	GENEPIO:0001198	The reason that the sample was collected.	be indicated in the "purpose of sequencing" field.		3.0.0	3.0.0	3.0.0
Sample collection and processing	purpose_or_sampling	GENEFIO:0001190	was collected.	If there was presampling activity that would affect the sample prior to collection	Antimicrobial pre-treatment [GENEPIO:0100537]	3.0.0	5.0.0	3.0.0
				(this is different than sample processing which happens after the sample is	[OZNZI IO.O100007]			
				collected), provide the experimental activities by selecting one or more values				
				from the template pick list. If the information is unknown or cannot be				
Sample collection and processing	presampling_activity	GENEPIO:0100433	collection that may affect the sample collected.	provided, leave blank or provide a null value.		3.0.0	3.0.0	3.0.0
			The details of the activities or		Chicken feed containing X amount of novobiocin was			
Sample collection and processing	processing activity details	GENEPIO:0100434	variables introduced upstream of sample collection that may affect the sample collected.	Briefly describe the presampling activity details using free text.	fed to chickens for 72 hours prior to collection of litter.	3.0.0	3.0.0	3.0.0
Sample collection and processing	experimental _protocol_field	GENEPIO:0101029	The name of the overarching	Provide the name of the methodology	OneHealth2024_protocol	3.0.0	3.0.0	3.0.0
Sample collection and processing			experimental methodology that was used to process the biomaterial.	used in your study. If available, provide a link to the protocol.		11.1.1	11.1.1	11.1.1
	experimental_specimen_role _type	GENEPIO:0100921	The type of role that the sample represents in the	Samples can play different types of roles in experiments. A sample under study in	Positive experimental control [GENEPIO:0101018]			
Sample collection and processing			experiment.  The processing applied to	one experiment may act as a control or be Provide the sample processing information		11.1.1	11.1.1	11.1.1
			samples post-collection, prior to further testing, characterization, or isolation	by selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or provide	[OBI:0600016]			
Sample collection and processing Sample collection and processing	specimen_processing specimen_processing_details	GENEPIO:0100435 GENEPIO:0100311	procedures. The details of the processing	a null value. Briefly describe the processes applied to	25 samples were pooled and	3.0.0	3.0.0	3.0.0
			applied to the sample during or after receiving the sample.	the sample.	further prepared as a single sample during library prep.	13.3.3	13.3.3	13.3.3
	nucleic acid extraction method	GENEPIO:0100939	The process used to extract genomic material from a	Briefly describe the extraction method used.	Direct wastewater RNA capture and purification via	10.0.0	10.0.0	10.0.0
O mark and the state of the sta			sample.	useu.	the "Sewage, Salt, Silica and Salmonella (4S)"			
Sample collection and processing	nucleic acid extraction kit	GENEPIO:0100772	The kit used to extract genomic material from a sample	Provide the name of the genomic extraction kit used.	QIAamp PowerFecal Pro DNA Kit	11.1.1	11.1.1	11.1.1
Sample collection and processing						11.1.1	11.1.1	11.1.1
			The equation of crimin of the	Provide the name of the country where the sample was collected. Use the controlled vocabulary provided in the template pick	Canada [GAZ:00002560]			
Sample collection and processing	geo_loc_name (country)	GENEPIO:0001181	The country of origin of the sample.	list. If the information is unknown or cannot be provided, provide a null value.  Provide the name of the	Daibligh Columbia	3.0.0	3.0.0	3.0.0
			The state/province/territory of	province the name of the province/state/region where the sample was collected. If the information is unknown or cannot be provided, provide a	British Columbia [GAZ:00002562]			
Sample collection and processing	geo_loc_name (state/province/region)	GENEPIO:0001185	origin of the sample.	null value.	Credit River	3.0.0	3.0.0	3.0.0
			The name of a specific geographical location e.g.	Provide the name of the specific geographical site using a specific noun (a	O. Gail I NYOI			
Sample collection and processing	geo_loc_name (site)	GENEPIO:0100436	Credit River (rather than river).	word that names a certain place, thing).		3.0.0	3.0.0	3.0.0

				If a food product was sampled and the	United States of America			
				food product was manufactured outside of	[GAZ:00002459]			
				Canada, provide the name of the country where the food product originated by				
				selecting a value from the template pick				
				list. If the information is unknown or cannot				
	food_product_origin geo_loc_name		The country of origin of a food	be provided, leave blank or provide a null				
Sample collection and processing	(country)	GENEPIO:0100437		value.		3.0.0	3.0.0	3.0.0
campic concentration and processing	(country)	GENET 10.0100407		If a sample is from a human or animal host	South Africa	0.0.0	0.0.0	0.0.0
				that originated from outside of Canada,	[GAZ:00001094]			
				provide the the name of the country where	[6, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,			
				the host originated by selecting a value				
				from the template pick list. If the				
				information is unknown or cannot be				
			The country of origin of the	provided, leave blank or provide a null				
Sample collection and processing	host_origin geo_loc_name (country)	GENEPIO:0100438	host.	value.		3.0.0	3.0.0	3.0.0
					38.98 N			
				If known, provide the degrees latitude. Do				
				NOT simply provide latitude of the				
				institution if this is not where the sample				
				was collected, nor the centre of the				
				city/region where the sample was collected				
				as this falsely implicates an existing				
			The latitude coordinates of the	geographical location and creates data inaccuracies. If the information is unknown				
				or cannot be provided, leave blank or				
Sample collection and processing	neo loc latitude	GENEPIO:0100309		provide a null value.		3.0.0	3.0.0	3.0.0
cample collection and processing	geo_loc latitude	GE14E1 10.0100309	Sample collection.	provide a fiuli value.	77.11 W	0.0.0	5.5.0	0.0.0
				If known, provide the degrees longitude.	//.11 W			
				Do NOT simply provide longitude of the				
				institution if this is not where the sample				
				was collected, nor the centre of the				
				city/region where the sample was collected				
				as this falsely implicates an existing				
				geographical location and creates data				
			The longitude coordinates of	inaccuracies. If the information is unknown				
				or cannot be provided, leave blank or				
Sample collection and processing	geo_loc longitude	GENEPIO:0100310		provide a null value.		3.0.0	3.0.0	3.0.0
				Provide the date according to the ISO	2020-10-30			
		0=11=010 · · · · ·		8601 standard "YYYY-MM-DD", "YYYY-				
Sample collection and processing	sample_collection_date	GENEPIO:0001174	was collected.	MM" or "YYYY".		3.0.0	3.0.0	3.0.0
				D	day [UO:0000033]			
				Provide the precision of granularity to the				
				"day", "month", or "year" for the date				
				provided in the "sample collection date"				
			Th	field. The "sample collection date" will be				
				truncated to the precision specified upon export; "day" for "YYYY-MM-DD", "month"				
Sample collection and processing	sample_collection_date_precision	GENEPIO:0001177		for "YYYY-MM", or "year" for "YYYY".		7.6.4	7.6.4	7.6.4
Sample collection and processing	sample_collection_date_precision	GENEFIO.0001177		Provide the date that sample collection	2020-03-18	7.0.4	7.0.4	7.0.4
				ended in ISO 8601 format i.e. YYYY-MM-	2020-03-16			
Sample collection and processing	sample collection and date	GENEPIO:0101071		DD		13.3.3	13.3.3	13.3.3
campic concount and processing		SEI1E 10.01010/1		Provide the sample processed date in ISO	2020-03-16	70.0.0	. 0.0.0	.0.0.0
				8601 format, i.e. "YYYY-MM-DD". The	2020 00 10			
				sample may be collected and processed				
				(e.g. filtered, extraction) on the same day,				
Sample collection and processing	sample_processing_date	GENEPIO:0100763		or on different dates.		13.3.3	13.3.3	13.3.3
. 3				Provide this time in ISO 8601 24hr format,	17:15 PST			
Sample collection and processing	sample_collection_start_time	GENEPIO:0101072		in your local time.		13.3.3	13.3.3	13.3.3
				Provide this time in ISO 8601 24hr format,	19:15 PST			
Sample collection and processing	sample_collection_end_time	GENEPIO:0101073		in your local time.		13.3.3	13.3.3	13.3.3
				If known, select a value from the pick list.	Morning			
				The time of sample processing matters				
				especially for grab samples, as fecal				
		OENEDIO 0400707		concentration in wastewater fluctuates		10.00	1000	1000
Sample collection and processing	sample_collection_time_of_day	GENEPIO:0100765	collected. The amount of time over	over the course of the day.	1000 04 04	13.3.3	13.3.3	13.3.3
					1900-01-04			
Sample collection and processing	sample collection time duration value	GENEPIO:0100766	which the sample was collected.	Provide the numerical value of time.		13.3.3	13.3.3	13.3.3
Cample collection and processing	sample_collection_time_duration_value	OLINE: 10.0100700	The units of the time duration	1 10 vide the numerical value of tille.	Hour	10.0.0	10.0.0	10.0.0
			measurement of sample		i ioui			
Sample collection and processing	sample_collection_time_duration_unit	GENEPIO:0100767		Provide the units from the pick list.		13.3.3	13.3.3	13.3.3
cample collection and processing	cample_concenton_unie_duration_dilit	SEITE 15.0100707		Provide the date according to the ISO	2020-11-15	70.0.0	. 0.0.0	.0.0.0
				8601 standard "YYYY-MM-DD", "YYYY-	2020 11 10			
Sample collection and processing	sample received date	GENEPIO:0001179		MM" or "YYYY".		3.0.0	3.0.0	3.0.0
				Provide the sample description provided	RTE Prosciutto from deli	2.5.0	2.3.0	2.3.0
				by the original sample collector. The				
				original description is useful as it may				
				provide further details, or can be used to				
Sample collection and processing	original sample description	GENEPIO:0100439				3.0.0	3.0.0	3.0.0
ample collection and processing	original_sample_description	GENEPIO:0100439	sample collector.	clarify higher level classifications.		3.0.0	3.0.0	3.0.0

			An environmental location	If applicable, coloct the standardized term	D. H. L. L. L. L.				
			may describe a site in the	If applicable, select the standardized term and ontology ID for the environmental site					
			natural or built environment	from the picklist provided. Multiple values	[[[1440.01001074]				
			e.g. hospital, wet market, bat	can be provided, separated by a semi-					
Sample collection and processing	environmental_site	GENEPIO:0001232	cave.	colon.			3.0.0	3.0.0	3.0.0
				This field should be used when a sample is	Turkey [NCBITaxon:9103]				
				taken from an environmental location inhabited by many individuals of a specific					
				type, rather than describing a sample					
				taken from one particular host. If					
				applicable, provide the standardized term					
				and ontology ID for the animal or plant					
				population name. The standardized term					
			The type of animal or plant	can be sourced from this look-up service: https://www.ebi.ac.uk/ols/ontologies/genep					
Sample collection and processing	animal or plant population	GENEPIO:0100443		o. If not applicable, leave blank.			3.0.0	3.0.0	3.0.0
				If applicable, select the standardized term	Soil [ENVO:00001998];				
			natural or man-made	and ontology ID for the environmental	Water [CHEBI:15377];				
			environment e.g. soil, water,	material from the picklist provided.	Wastewater				
Canada adlastica and accessing		GENEPIO:0001223	sewage, door handle, bed handrail, face mask.	Multiple values can be provided,	[ENVO:00002001]; Broom		200	200	200
Sample collection and processing	environmentai_materiai	GENEPIO:0001223		separated by a semi-colon.  If applicable, describe the material	[ENVO:03501377]		3.0.0	3.0.0	3.0.0
			comprise an environmental	constituents for the environmental	lead; plastic				
			material e.g. a pipe that is	material. Multiple values can be provided,					
Sample collection and processing	environmental_material_constituent	GENEPIO:0101197	lined with lead.	separated by a semi-colon.			12.2.2	12.2.2	12.2.2
				An anatomical material is a substance	Tissue [UBERON:0000479];				
				taken from the body. If applicable, select	Blood [UBERON:0000178]				
			A substance obtained from an	the standardized term and ontology ID for the anatomical material from the picklist					
			anatomical part of an	provided. Multiple values can be provided,					
Sample collection and processing	anatomical material	GENEPIO:0001211	organism e.g. tissue, blood.	separated by a semi-colon.			3.0.0	3.0.0	3.0.0
	-			A body product is a substance produced	Feces [UBERON:0001988];				
				by the body but meant to be	Urine [UBERON:0001088]				
				excreted/secreted (i.e. not part of the					
				body). If applicable, select the standardized term and ontology ID for the					
			A substance excreted/secreted	body product from the picklist provided.					
				Multiple values can be provided,					
Sample collection and processing	body_product	GENEPIO:0001216	urine, sweat.	separated by a semi-colon.			3.0.0	3.0.0	3.0.0
	-			An anatomical part is a structure or	Snout [UBERON:0006333]				
				location in the body. If applicable, select					
				the standardized term and ontology ID for the anatomical material from the picklist					
			An anatomical part of an	provided. Multiple values can be provided,					
Sample collection and processing	anatomical part	GENEPIO:0001214	organism e.g. oropharynx.	separated by a semi-colon.			3.0.0	3.0.0	3.0.0
				This field captures more granular spatial	Dorso-lateral region				
			A 3D region in space without	information on a host anatomical part e.g.	[BSPO:0000080]				
0		OENEDIO 0400700	well-defined compartmental	dorso-lateral region vs back. Select a term			704	7.0.4	704
Sample collection and processing	anatomicai_region	GENEPIO:0100700	boundaries.	from the picklist. This field includes animal feed. If	Footbor mool		7.6.4	7.6.4	7.6.4
				applicable, select the standardized term	Feather meal [FOODON:00003927]; Bone				
				and ontology ID for the anatomical	meal [ENVO:02000054];				
			A material consumed and	material from the picklist provided.	Chicken breast				
L		05115010	digested for nutritional value	Multiple values can be provided,	[FOODON:00002703]				
Sample collection and processing	100d_product	GENEPIO:0100444	or enjoyment.	separated by a semi-colon.	E - 1/-1		3.0.0	3.0.0	3.0.0
				Provide any characteristics of the food	Food (chopped)				
				product including whether it has been	[FOODON:00002777]; Ready-to-eat (RTE)				
			Any characteristic of the food	cooked, processed, preserved, any known	[FOODON:03316636]				
			product pertaining to its state,	information about its state (e.g. raw, ready-					
			processing, or implications for	to-eat), any known information about its					
Sample collection and processing	food_product_properties	GENEPIO:0100445	consumers.	containment (e.g. canned).			3.0.0	3.0.0	3.0.0
				Provide any characteristic of the food	Antibiotic free				
Sample collection and processing	lahel claim	FOODON:03602001	relates to food processing, allergen information etc.	product, as described on the label only (e.g. organic, fat-free).	[FOODON:03601063]		12.2.2	12.2.2	12.2.2
campic concount and processing	IUDG_CIGIIII	1 305014.03002001	anergen miorniation etc.	Provide the common name of the animal.	Chicken [NCBITaxon:9031]		14.4.4	16.6.6	16.6.6
1				If not applicable, leave blank. Multiple					
			The animal from which the	entries can be provided, separated by a					
Sample collection and processing	animal_source_of_food	GENEPIO:0100446	food product was derived.	comma.			3.0.0	3.0.0	3.0.0
			A production pathway		Beef cattle production				
			incorporating the processes,		stream				
			material entities (e.g. equipment, animals,		[FOODON:03000452]				
			locations), and conditions that						
				Provide the name of the agricultural					
Sample collection and processing	food_product_production_stream	GENEPIO:0100699	a food commodity.	production stream from the picklist.		production_stream	8.8.7	7.6.4	8.8.7
			The type of packaging used to	If known, provide information regarding	Plastic tray or pan				
Sample collection and processing	food_packaging	GENEPIO:0100447	contain a food product.	how the food product was packaged.	[FOODON:03490126]		3.0.0	3.0.0	3.0.0

			A 1.1	Th's data 's ton's Hardada and Control				
				This date is typically labeled on a food				
				product as "best if used by", best by", "use				
			quality, this date is not a	by", or "freeze by" e.g. 5/24/2020. If the date is known, leave blank or provide a				
0	for all annually and a	GENEPIO:0100615	on infant formula.	null value.	2020-05-25	6.4.2	6.4.2	6.4.2
Sample collection and processing	Tood_quality_date	GENEPIO:0100615	on intant formula.		2020-05-25	6.4.2	6.4.2	6.4.2
				The packaging date should not be				
			A food woods at a series	confused with, nor replaced by a Best				
			A food product's packaging	Before date or other food quality date. If				
Cample cellection and accession	for all months who makes	GENEPIO:0100616	date as marked by a food manufacturer or retailer.	the date is known, leave blank or provide a null value.	2020-05-25	6.4.2	6.4.2	6.4.2
Sample collection and processing	Tood_packaging_date	GENEPIO:0100616	manufacturer or retailer.	This field includes animal feed. If		0.4.2	0.4.2	0.4.2
					Drag swab [OBI:0002822]			
				applicable, select the standardized term and ontology ID for the anatomical				
			The instrument or container	material from the picklist provided.				
0	- Hardan daylar	OENEDIO 0004004		Multiple values can be provided,				000
Sample collection and processing	collection_device	GENEPIO:0001234	swab.	separated by a semi-colon.		3.0.0	3.0.0	3.0.0
				If applicable, provide the standardized	Rinsing for specimen			
				term and ontology ID for the anatomical	collection			
			The process used to collect	material from the picklist provided.	[GENEPIO_0002116]			
			the sample e.g. phlebotomy,	Multiple values can be provided,				
Sample collection and processing		GENEPIO:0001241	necropsy.	separated by a semi-colon.		3.0.0	3.0.0	3.0.0
	sample_volume_measurement_value	GENEPIO:0100768	The numerical value of the	Provide the numerical value of volume.	5			
L			volume measurement of the					l
Sample collection and processing			sample collected.			11.1.	.1 11.1.1	11.1.1
1	sample_volume_measurement_unit	GENEPIO:0100769	The units of the volume	Provide the units from the pick list.	milliliter (mL) [UO:0000098]			
L			measurement of the sample					
Sample collection and processing			collected.			11.1.		
Sample collection and processing	residual_sample_status	GENEPIO:0101090				11.1.	.1 11.1.1	11.1.1
L				Provide a description of how the same was	Frozen at -20C			
Sample collection and processing	sample_storage_method	GENEPIO:0100448		stored.		3.0.0	3.0.0	3.0.0
				Provide a description of the material or				
Sample collection and processing	sample_storage_medium	GENEPIO:0100449	a sample is stored.	matrix used to store the sample.	PBS + 20% glycerol	3.0.0	3.0.0	3.0.0
	sample_storage_duration_value	GENEPIO:0101014	The numerical value of the	Provide the numerical value of time.	5			
			time measurement during					
Sample collection and processing			which a sample is in storage.			11.1.	.1 11.1.1	11.1.1
L	sample_storage_duration_unit	GENEPIO:0101015	The units of a measured	Provide the units from the pick list.	Day [UO:0000033]			
Sample collection and processing			sample storage duration.			11.1.	.1 11.1.1	11.1.1
	nucleic_acid_storage_duration_value		The numerical value of the	Provide the numerical value of time.	5			
			time measurement during					
			which the extracted nucleic					
Sample collection and processing		GENEPIO:0101085	acid is in storage.			11.1.	.1 11.1.1	11.1.1
	nucleic_acid_storage_duration_unit		The units of a measured	Provide the units from the pick list.				
			extracted nucleic acid storage					
Sample collection and processing		GENEPIO:0101086	duration.		Year [UO:0000036]	11.1.	.1 11.1.1	11.1.1
				This field provides information about	Total coliform count data			
				additional data types that are available				
				that may provide context for interpretation				
				of the sequence data. Provide a term from				
				the picklist for additional data types that				
				are available. Additional data types may				
1			The type of data that is	require special permission to access.				
1				Contact the data provider for more				
Sample collection and processing	available_data_types	GENEPIO:0100690	require permission to access.	information.		3.0.0	3.0.0	3.0.0
				Use this field to provide free text details	Pooled metagenomes			
			L	describing other available data types that	containing extended			
				may provide context for interpreting	spectrum beta-lactamase			
Sample collection and processing	available_data_types_details	GENEPIO:0101023	other available data types.	genomic sequence data.	(ESBL) bacteria	9.0.0	9.0.0	9.0.0
Environmental conditions and								
measurements								
Environmental conditions and				Provide the numerical depth only of water	5			
measurements	water_depth	GENEPIO:0100440	The depth of some water.	only (without units).		3.0.0	3.0.0	9.0.0
Environmental conditions and			The units of measurement for	Provide the units of measurement for	m			
measurements	water_depth_units	GENEPIO:0101025	water depth.	which the depth was recorded.		9.0.0	9.0.0	9.0.0
Environmental conditions and				Provide the numerical depth only of the	2			
measurements	sediment_depth	GENEPIO:0100697	The depth of some sediment.	sediment (without units).		7.6.4	7.6.4	9.0.0
Environmental conditions and			The units of measurement for s	Provide the units of measurement for	m			
measurements	endiment denth units	GENEPIO:0101026		which the depth was recorded.		9.0.0	9.0.0	9.0.0
Environmental conditions and	sediment_depth_units	SEINET 10.0101020		Provide the numerical value for the	25	9.0.0	9.0.0	5.0.0
measurements	air_temperature	GENEPIO:0100441	The temperature of some air.	temperature of the air (without units).	20	3.0.0	3.0.0	9.0.0
measurements	un_temperature	OLIVEI IO.0100441	The temperature of some air.	temperature of the air (without units).	celsius	0.0.0	0.0.0	5.0.0
Environmental conditions and			The units of measurement for	Provide the units of measurement for	ociolus			
measurements	air_temperature_units	GENEPIO:0101027	air temperature.	which the temperature was recorded.		9.0.0	9.0.0	9.0.0
Environmental conditions and	un_temperature_units	SEINET 10.0101027	The temperature of some	Provide the numerical value for the	4	9.0.0	3.0.0	5.0.0
measurements	water temperature	GENEPIO:0100698	water.	temperature of the water (without units).	7	7.6.4	7.6.4	9.0.0
	temperature	S21421 IS.0 100030	Tracol.	tomporature or the water (without utilits).	celsius	7.0.4	7.0.4	0.0.0
Environmental conditions and			The units of massurement for	Provide the units of measurement for	ociolus			
	water temperature	GENEPIO:0101028				9.0.0	9.0.0	9.0.0
measurements	water_temperature_units	GENEPIO:0101028	water temperature.	which the temperature was recorded.		9.0.0	9.0.0	9.0.0

			The state of the atmosphere at	1	Rain [ENVO:01001564]					
			a place and time as regards	•	Rain [ENVO:01001504]					
Environmental conditions and				Provide the weather conditions at the time						
measurements	sampling_weather_conditions	GENEPIO:0100779	rain, etc.	of sample collection.		weather_type	GENEPIO:0100442	13.3.3	13.3.3	13.3.3
Forder and the Prince of			Weather conditions prior to	Book of the second of the seco	Rain [ENVO:01001564]					
Environmental conditions and measurements	presampling_weather_conditions	GENEPIO:0100780	collection that may affect the sample.	Provide the weather conditions prior to sample collection.				13.3.3	13.3.3	13.3.3
measurements	presampling_weather_conditions	GENEFIO.0100760	The amount of water which	Provide the quantity of precipitation in the	1:			13.3.3	13.3.3	13.3.3
Environmental conditions and			has fallen during a	area leading up to the time of sample	"	-				
measurements	precipitation_measurement_value	GENEPIO:0100911	precipitation process.	collection.				13.3.3	13.3.3	13.3.3
			The units of measurement for		inch					
Environmental conditions and			the amount of water which has fallen during a precipitation							
measurements	precipitation measurement unit	GENEPIO:0100912	process.	Provide the units of precipitation by selecting a value from the pick list.				13.3.3	13.3.3	13.3.3
measurements	precipitation_measurement_unit	GLINEI 10.0100912	The process used to measure	selecting a value from the pick list.	Rain gauge over a 12 hour			15.5.5	13.3.3	13.3.3
ı			the amount of water which has	i	period prior to sample					
Environmental conditions and			fallen during a precipitation	Provide the name of the procedure or	collection					
measurements	precipitation_measurement_method	GENEPIO:0100913	process.	method used to measure precipitation.				13.3.3	13.3.3	13.3.3
Host information		GENEPIO:0001268								
HOST IIIOIIIIATIOII		GENEI 10.0001200		If the sample is directly from a host, either	Cow [NCBITaxon:9913]:					
				a common or scientific name must be	Chicken [NCBITaxon:9913],					
				provided (although both can be included, if	Human [NCBITaxon:9606]					
				known). If known, provide the common						
Host information	host (common name)	GENEPIO:0001386	the host.	name.  If the sample is directly from a host, either	D			3.0.0	3.0.0	3.0.0
				a common or scientific name must be	[NCBITaxon:9913]; Homo					
				provided (although both can be included, if						
			The taxonomic, or scientific	known). If known, select the scientific	Supicits [IVODITUXOII.5 100]					
Host information	host (scientific name)	GENEPIO:0001387	name of the host.	name from the picklist provided.				3.0.0	3.0.0	3.0.0
			The biotype resulting from		Sea ecotype					
			selection in a particular habitat, e.g. the A. thaliana	Provide the name of the ecotype of the						
Host information	host (ecotype)	GENEPIO:0100450	Ecotype Ler.	host organism.				3.0.0	3.0.0	3.0.0
Tiost illiomatori	nost (ecotype)	OLIVEI 10.0100400	A breed is a specific group of	nost organism.	Holstein			0.0.0	0.0.0	0.0.0
			domestic animals or plants							
			having homogeneous							
			appearance, homogeneous							
			behavior, and other							
			characteristics that distinguish it from other animals or plants							
			of the same species and that							
			were arrived at through	Provide the name of the breed of the host						
Host information	host (breed)	GENEPIO:0100451	selective breeding.	organism.				3.0.0	3.0.0	3.0.0
			The name of the host at a		Calf [FOODON:03411349]					
			certain stage of food production, which may depend							
			on its age or stage of sexual	Select the host's food production name						
Host information	host (food production name)	GENEPIO:0100452	maturity.	from the pick list.				3.0.0	3.0.0	3.0.0
	, ,			Select the corresponding host age bin	First summer					
			Age of host at the time of	from the pick list provided in the template.	[GENEPIO:0100685]					
Heat information	haat and him	GENEPIO:0001394	sampling, expressed as an	If not available, provide a null value or				7.6.4	7.6.4	7.6.4
Host information	host_age_bin	GENEPIO:0001394	age group.	leave blank. This field is only required if the	mastitis, gastroenteritis			1.0.4	7.6.4	7.6.4
				Pathogen.cl package was selected. If the	masuus, gastroenteritis					
				host was sick, provide the name of the						
				disease.The standardized term can be						
				sourced from this look-up service:						
Host information	hant dianas	GENEPIO:0001391	The name of the disease	https://www.ebi.ac.uk/ols/ontologies/doid If the disease is not known, put "missing".				3.0.0	3.0.0	3.0.0
Strain and isolation information	host_disease	GENEPIO:0001391 GENEPIO:0100453	experienced by the host.	the disease is not known, put missing.				0.0.0	3.0.0	3.0.0
		<u> </u>		Provide the name and version number of	MFHPB-30					
				the microbiological method. The ID of the						
				method is also acceptable if the ID can be						
Strain and isolation information		GENEPIO:0100454	grow, prepare, and/or isolate the microbial isolate.	linked to the laboratory that created the				200	200	3.0.0
outain and isolation information	microbiological_method	GENEPIO:0100454	trie microdiai isolate.	procedure.  A population or type of organisms that is	K12			3.0.0	3.0.0	3.0.0
				genetically different from others of the	NIZ					
				same species and possessing a set of						
				defined characteristics. If the isolate						
				represents or is derived from, a lab						
				reference strain or strain from a type						
Strain and isolation information	strain	GENEPIO:0100455	The strain identifier.	culture collection, provide the strain identifier.				3.0.0	3.0.0	3.0.0
Juani and isolation information	Sudili	GEINEFIO.0100455	THE SUBILLIUE IN THE SUBILLIUE I.	IUCHUHCI.				J.U.U	3.0.0	3.0.0

		_		Provide the isolate ID created by the lab	0.000101010			
				that first isolated the isolate (i.e. the	SA20131043			
				original isolate ID). If the information is				
				unknown or cannot be provided, leave				
				blank or provide a null value. If only an				
				alternate isolate ID is known (e.g. the ID				
				from your lab, if your lab did not isolate the				
				isolate from the original sample), make				
Ctuals and inclution information	inclute ID	CENEDIO 0400456	Identifier of the specific	asure to include it in the		200	200	200
Strain and isolation information	isolate_ID	GENEPIO:0100456	isolate.	alternative_isolate_ID field.	GHIF3456[PHAC];	3.0.0	3.0.0	3.0.0
				Alternative isolate IDs should be provided	OWICK222ICEIAI			
				in the in a prescribed format which	QWICKZZZ[CI IA]			
				consists of the ID followed by square				
				brackets (no space in between the ID and				
				bracket) containing the short form of ID				
				provider's agency name i.e. ID[short				
				organization code]. Agency short forms				
				include the following: Public Health Agency of Canada: PHAC				
				Canadian Food Inspection Agency: CFIA				
				Agriculture and Agri-Food Canada: AAFC				
				Fisheries and Oceans Canada: DFO				
				Environment and Climate Change				
				Canada: ECCC				
				Health Canada: HC				
				An example of a properly formatted				
				alternative_isolate_identifier would be e.g.				
			An alternative isolate_ID	XYZ4567[CFIA]				
Strain and isolation information	alternative_isolate_ID	GENEPIO:0100457	assigned to the isolate by another organization.	Multiple alternative isolate IDs can be provided, separated by semi-colons.		3.0.0	3.0.0	3.0.0
Strain and isolation information	alternative_isolate_iD	GENEPIO:0100457	another organization.	provided, separated by semi-colons.	SUB ON 1526	3.0.0	3.0.0	3.0.0
			The identifier assigned to a		SUB_UN_1526			
				If your sequence data pertains to progeny				
			an isolate that was directly	of an original isolate, provide the				
Strain and isolation information	progeny_isolate_ID	GENEPIO:0100458	obtained from a sample.	progeny_isolate_ID.		3.0.0	3.0.0	3.0.0
				Provide the "sample ID" used to track	GRDI_LL_12345			
				information linked to the isolate in IRIDA.				
				IRIDA sample IDs should be unque to				
				avoid ID clash. This is very important in large Projects, especially when samples				
				are shared from different organizations.				
				Download the IRIDA sample ID and add it				
			The identifier of the isolate in	to the sample data in your spreadsheet as				
Strain and isolation information	IRIDA_isolate_ID	GENEPIO:0100459	the IRIDA platform.	part of good data management practices.		3.0.0	3.0.0	3.0.0
			The identifier of the Project in		666			
Strain and isolation information	IRIDA_project_ID	GENEPIO:0100460	the iRIDA platform.	Provide the IRIDA "project ID".		3.0.0	3.0.0	3.0.0
			T1	Provide the name of the agency,	Public Health Agency of			
			The name of the agency, organization or institution with	organization or institution that isolated the original isolate in full (avoid abbreviations).	Canada (PHAC)			
			which the individual who	If the information is unknown or cannot be	[GENEPIO:0100551]			
			performed the isolation	provided, leave blank or provide a null				
Strain and isolation information	isolated_by	GENEPIO:0100461	procedure is affiliated.	value.		3.0.0	3.0.0	3.0.0
			F	Provide the name of the specific	Topp Lab			
				laboratory that that isolated the original				
			The specific laboratory	isolate (avoid abbreviations). If the				
				information is unknown or cannot be				
Carrier and include: " ! f	included by Johannia	OENEDIO 0400400	performed the isolation	provided, leave blank or provide a null		200	200	200
Strain and isolation information	isolated_by_laboratory_name	GENEPIO:0100462	procedure.	value. Provide the name of an individual or their	Enterios Lab Manager	3.0.0	3.0.0	3.0.0
				job title. As personnel turnover may render	Enterios Lab Manager			
				the contact's name obsolete, it is				
				prefereable to provide a job title for				
				ensuring accuracy of information and				
			The name or title of the	institutional memory. If the information is				
L		1		unknown or cannot be provided, leave			L	
Strain and isolation information	isolated_by_contact_name	GENEPIO:0100463	up regarding the isolate.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
				Provide the email associated with the	enterics@lab.ca			
				listed contact. As personnel turnover may render an individual's email obsolete, it is				
				more prefereable to provide an address for				
				a position or lab, to ensure accuracy of				
				information and institutional memory. If the				
		1	The email address of the	information is unknown or cannot be				
			The email address of the					
			contact responsible for follow-	provided, leave blank or provide a null				
Strain and isolation information	isolated_by_contact_email	GENEPIO:0100464		provided, leave blank or provide a null value.		3.0.0	3.0.0	3.0.0
Strain and isolation information	isolated_by_contact_email	GENEPIO:0100464	contact responsible for follow- up regarding the isolate.	provided, leave blank or provide a null value.  Provide the date according to the ISO	2020-10-30	3.0.0	3.0.0	3.0.0
Strain and isolation information  Strain and isolation information	isolated_by_contact_email	GENEPIO:0100464  GENEPIO:0100465	contact responsible for follow- up regarding the isolate.  The date on which the isolate	provided, leave blank or provide a null value.	2020-10-30	3.0.0	3.0.0	3.0.0

				Provide the date according to the ISO	2020-11-15			
Oberio en distribution information	Sectors and sectors of sectors	OENEDIO 0400400	was received by the	8601 standard "YYYY-MM-DD", "YYYY-		0.00	000	000
Strain and isolation information	isolate_received_date	GENEPIO:0100466	laboratory.	MM" or "YYYY". Put the genus and species (and	0.1	 3.0.0	3.0.0	3.0.0
				subspecies if applicable) of the bacteria, if	Salmonella enterica subsp. enterica [NCBITaxon:59201]			
				known. The standardized term can be	entenca [NCB11ax011.59201]			
				sourced from this look-up service:				
			Taxonomic name of the	https://www.ebi.ac.uk/ols/ontologies/ncbita				
Strain and isolation information	organism	GENEPIO:0001191	organism.	xon.		3.0.0	3.0.0	3.0.0
				Provide the type of method used to	PCR assay [OBI:0002740]			
				determine the taxonomic identity of the				
			The type of planned process	organism by selecting a value from the				
			by which an organismal entity					
Strain and isolation information	Annonemia identification nucces	GENEPIO:0100583	is associated with a taxon or taxa.	cannot be provided, leave blank or provide a null value.		4.2.1	4.2.1	4.2.1
Strain and isolation information	taxonomic_identification_process	GENEFIO.0100363	The details of the process	a nun value.	Piolog instrument	 4.2.1	4.2.1	4.2.1
			used to determine the	Briefly describe the taxonomic	Biolog instrument			
			taxonomic identification of an	identififcation method details using free				
Strain and isolation information	taxonomic_identification_process_details	GENEPIO:0100584	organism.	text.		4.2.1	4.2.1	4.2.1
			-	Only include this information if it has been	Heidelberg			
				determined by traditional serological				
				methods or a validated in silico prediction				
Strain and isolation information	serovar	GENEPIO:0100467	The serovar of the organism.	tool e.g. SISTR.		3.0.0	3.0.0	3.0.0
				If the serovar was determined via	SISTR 1.0.1			
				traditional serotyping methods, put				
				"Traditional serotyping". If the serovar was determined via in silico methods, provide				
			The method used to determine	e the name and version number of the				
Strain and isolation information	serotyping_method	GENEPIO:0100468	the serovar.	software.		3.0.0	3.0.0	3.0.0
Citain and isolation information	serotyping_method	OLIVEI 10.0100400	The phagetype of the	Provide if known. If unknown, put	47	 0.0.0	0.0.0	0.0.0
Strain and isolation information	phagetype	GENEPIO:0100469	organism.	"missing".		3.0.0	3.0.0	3.0.0
Sequence information		GENEPIO:0001441						
				Every "library ID" from a single submitter	LS 2010 NP 123446			
				must be unique. It can have any format,				
			The user-specified identifier	but we suggest that you make it concise,				
0		OENEDIO 0004440	for the library prepared for	unique and consistent within your lab, and		0.00	000	000
Sequence information	library_ID	GENEPIO:0001448	sequencing.	as informative as possible.	Date Hall America	 3.0.0	3.0.0	3.0.0
				Provide the name of the agency, organization or institution that performed	Public Health Agency of			
			The name of the agency,	the sequencing in full (avoid	Canada (PHAC) [GENEPIO:0100551]			
			organization or institution	abbreviations). If the information is	[GENEPIO:0100551]			
				unknown or cannot be provided, leave				
Sequence information	sequenced_by	GENEPIO:0100416	isolate's genome.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
				Provide the name of the specific	Topp Lab			
				laboratory that that performed the				
			The specific laboratory	sequencing in full (avoid abbreviations). If				
				or the information is unknown or cannot be				
Commence information		CENEDIO-0400470	sequencing the isolate's	provided, leave blank or provide a null		200	200	200
Sequence information	sequenced_by_laboratory_name	GENEPIO:0100470	genome.	value. Provide the name of an individual or their	Fotodo Lab Managara	 3.0.0	3.0.0	3.0.0
				job title. As personnel turnover may render	Enterics Lab Manager			
				the contact's name obsolete, it is more				
				prefereable to provide a job title for				
				ensuring accuracy of information and				
			The name or title of the	institutional memory. If the information is				
			contact responsible for follow-	unknown or cannot be provided, leave				
Sequence information	sequenced_by_contact_name	GENEPIO:0100471	up regarding the sequence.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
				Provide the email associated with the	enterics@lab.ca			
				listed contact. As personnel turnover may				
				render an individual's email obsolete, it is	_			
				more prefereable to provide an address fo	r			
				a position or lab, to ensure accuracy of information and institutional memory. If the				
			The email address of the	information and institutional memory. If the				
			contact responsible for follow-					
Sequence information	sequenced_by_contact_email	GENEPIO:0100422	up regarding the sequence.	value.		3.0.0	3.0.0	3.0.0
				Provide the reason for sequencing by	Research	1		
				selecting a value from the following pick	[GENEPIO:0100003]			
				list: Diagnostic testing, Surveillance,	,			
				Monitoring, Clinical trial, Field experiment,				
			<u></u>	Environmental testing. If the information is	•			
la			The reason that the sample	unknown or cannot be provided, leave				
Sequence information	purpose_of_sequencing	GENEPIO:0001445	was sequenced.	blank or provide a null value.	1110 0001 (01 1000)	3.0.0	3.0.0	3.0.0
			The name of the project/initiative/program for	Provide the name of the project and/or the project ID here. If the information is	AMK-GRDI (PA-1356)			
ĺ			which sequencing was	unknown or cannot be provided, leave				
Sequence information	sequencing_project_name	GENEPIO:0100472	performed.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
coquento information	ooquoomg_projeot_nume	JE. 10.0100472	portorniou.	plant of provide a fluit value.	1	 0.0.0	3.0.0	0.0.0

				15						
				Provide the name of the company that created the sequencing instrument by	Illumina [GENEPIO:0001923]					
				selecting a value from the template pick	[GENEPIO:0001923]					
				list. If the information is unknown or canno	t					
				be provided, leave blank or provide a null						
Sequence information	sequencing_platform	GENEPIO:0100473	to perform the sequencing.	value. Provide the model sequencing instrument	W			3.0.0	3.0.0	3.0.0
				by selecting a value from the template	[GENEPIO:0100117]					
				pick list. If the information is unknown or	[GENEFIO:0100117]					
			The model of the sequencing	cannot be provided, leave blank or provide						
Sequence information	sequencing_instrument	GENEPIO:0001452	instrument used.	a null value.				3.0.0	3.0.0	3.0.0
		GENEPIO:0100997	The overarching sequencing methodology that was used to	Example Guidance: Provide the name of the DNA or RNA sequencing technology	whole genome sequencing assay [OBI:0002117]					
			determine the sequence of a	used in your study. If unsure refer to the	assay [OBI.0002117]					
Sequence information	sequencing_assay_type		biomaterial	protocol documentation, or provide a null				10.0.0	10.0.0	10.0.0
			The name of the DNA library preparation kit used to							
			generate the library being	Provide the name of the library						
Sequence information	library_preparation_kit	GENEPIO:0001450	sequenced.	preparation kit used.	Nextera XT			3.0.0	3.0.0	3.0.0
		GENEPIO:0100843	The length of the DNA	Provide the fragment length in base pairs	400					
			fragment generated by	(do not include the units).						
			mechanical shearing or enzymatic digestion for the							
			purposes of library							
Sequence information	DNA_fragment_length		preparation.					11.1.1	11.1.1	11.1.1
		GENEPIO:0100966		Provide the name of the enrichment	Hybrid selection method					
			to selectively capture and amplify specific regions of	method	(bait-capture) [GENEPIO:0001950]					
Sequence information	genomic_target_enrichment_method		interest from a genome.		[GENEFIO:0001930]			11.1.1	11.1.1	11.1.1
·	0 - 1 - 2 - 0 - 2 - 1 - 2 - 1 - 1	GENEPIO:0100967	Details that provide additional	Provide details that are applicable to the	enrichment was done using					
			context to the molecular	method you used. Note: If bait-capture	Twist's respiratory virus					
			technique used to selectively	methods were used for enrichment,	research panel:					
			capture and amplify specific regions of interest from a	provide the panel name and version number (or a URL providing that	https://www.twistbioscience. com/products/ngs/fixed-					
	genomic_target_enrichment_method_deta	ni	genome.	information).	panels/respiratory-virus-					
Sequence information	Is			•	research-panel			11.1.1	11.1.1	11.1.1
		GENEPIO:0001456	The specifications of the	Provide the name and version of the	artic v3					
			primers (primer sequences, binding positions, fragment	primer scheme used to generate the amplicons for sequencing.						
			size generated etc) used to	amplicons for sequencing.						
			generate the amplicons to be							
Sequence information	amplicon_pcr_primer_scheme		sequenced.					11.1.1	11.1.1	11.1.1
		GENEPIO:0001449	The length of the amplicon generated by PCR	Provide the amplicon size expressed in	300					
Sequence information	amplicon_size		amplification.	base pairs.				11.1.1	11.1.1	11.1.1
		GENEPIO:0101102	The version number of the	Flow cells can vary in terms of design,	R.9.4.1					
			flow cell used for generating	chemistry, capacity, etc. The version of						
			sequence data.	the flow cell used to generate sequence						
				data can affect sequence quantity and quality. Record the version of the flow cell						
				used to generate sequence data. Do not						
				include "version" or "v" in the version						
Sequence information	sequencing_flow_cell_version			number.			GENEPIO:0101084	11.1.1	11.1.1	11.1.1
				Provide the name and version of the	https://www.protocols.io/view/ncov-2019-sequencing-					
				procedure or protocol used for sequencing.						
			The protocol or method used	You can also provide a link to a protocol	bbmuik6w?version_warning					
Sequence information	sequencing_protocol	GENEPIO:0001454	for sequencing.	online.	=no			3.0.0	3.0.0	3.0.0
Sequence information	r1 fastq filename	GENEPIO:0001476	The user-specified filename of the r1 FASTQ file.	Provide the r1 FASTQ filename.	ABC123_S1_L001_R1_001. fastq.gz			3.0.0	3.0.0	3.0.0
ooquooo miomidion	i i_iusiq_illerialile	S2.421 10.0001470	The user-specified filename of		ABC123 S1 L001 R2 001.			5.0.0	0.0.0	0.0.0
Sequence information	r2_fastq_filename	GENEPIO:0001477	the r2 FASTQ file.	Provide the r2 FASTQ filename.	fastq.gz			3.0.0	3.0.0	3.0.0
0		OENEDIO 0004 :00	The user-specified filename of		batch1a_sequences.fast5			0.00		0.00
Sequence information	fast5_filename	GENEPIO:0001480	the FAST5 file. The user-defined filename of	Provide the FAST5 filename.	pathogenassembly123.fasta			3.0.0	3.0.0	3.0.0
Sequence information	genome_sequence_filename	GENEPIO:0101715	the FASTA file.	Provide the FASTA filename.	patriogenassembly (23.fasta	assembly filename	GENEPIO:0001461	13.4.4	13.4.4	3.0.0
Bioinformatics and QC metrics	2oodganoo_monamo	GENEPIO:0001457				,				
				Providing the name of the method used for	r					
				quality control is very important for interpreting the rest of the QC information.						
				Method names can be provided as the						
				name of a pipeline or a link to a GitHub						
				repository. Multiple methods should be						
				listed and separated by a semi-colon. Do						
Riginformation and OC matrice	quality central method name	GENEPIO:0100557	passed a predetermined	not include QC tags in other fields if no	near tools			11 1 1	11 1 1	11 1 1
Bioinformatics and QC metrics	quality control method name	GENEPIO:010055/	quality control threshold.	method name is provided.	ncov-tools			11.1.1	11.1.1	11.1.1

		_			1			
				Methods updates can make big differences				
				to their outputs. Provide the version of the				
				method used for quality control. The				
				version can be expressed using whatever				
			The version number of the	convention the developer implements (e.g. date, semantic versioning). If multiple	•			
			method used to assess	methods were used, record the version				1
			whether a sequence passed a	numbers in the same order as the method				
			predetermined quality control	names. Separate the version numbers				
Bioinformatics and QC metrics	quality_control_method_version	GENEPIO:0100558	threshold.	using a semi-colon.	1.2.3	11.1.1	11.1.1	11.1.1
				Select a value from the pick list provided.  If a desired value is missing, submit a new				
				term request to the PHA4GE QC Tag				
			The determination of a quality	GitHub issuetracker using the New Term	sequence failed quality			
Bioinformatics and QC metrics	quality_control_determination	GENEPIO:0100559	control assessment.	Request form.	control	11.1.1	11.1.1	11.1.1
			The reason contributing to, or	Select a value from the pick list provided.  If a desired value is missing, submit a new				
			causing, a low quality	term request to the PHA4GE QC Tag				
			determination in a quality	GitHub issuetracker using the New Term	low average genome			
Bioinformatics and QC metrics	quality_control_issues	GENEPIO:0100560	control assessment.	Request form.	coverage	11.1.1	11.1.1	11.1.1
					CT value of 39. Low viral			
			The details surrounding a low	Barrida mater as details as sanding OC	load. Low DNA			
Bioinformatics and QC metrics	quality control details	GENEPIO:0100561	quality determination in a quality control assessment.	Provide notes or details regarding QC results using free text.	concentration after amplification.	11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	quanty_control_details	SEINER 10.0 100001	quality control assessment.	Raw data processing can have a	атриновион.	11.1.1	(1.1.1	11.1.1
1				significant impact on data quality and how				
1				it can be used. Provide the names and				
1				version numbers of software used for				
			processing such as removing barcodes, adapter trimming,	trimming adaptors, quality filtering, etc (e.g. Trimmomatic v. 0.38, Porechop v.				
Bioinformatics and QC metrics	raw sequence data processing method	GENEPIO:0001458	filtering etc.	0.2.3), or a link to a GitHub protocol.	Porechop 0.2.3	11.1.1	11.1.1	11.1.1
Biolinormanos ana do montos	ram_coductioo_data_processing_inication	OZNZ: 10:0001100	The method used to remove	o.z.o), or a min to a ora rap protocon	1 0.00.10p 0.2.0			
			host reads from the pathogen	Provide the name and version number of				
Bioinformatics and QC metrics	dehosting_method	GENEPIO:0001459	sequence.	the software used to remove host reads.	Nanostripper	11.1.1	11.1.1	11.1.1
			The name of the software	Provide the name of the software used to	SPAdes Genome Assembler, Canu, wtdbg2,			
Bioinformatics and QC metrics	sequence_assembly_software_name	GENEPIO:0100825	used to assemble a sequence.		velvet	11.1.1	11.1.1	11.1.1
			The version of the software	Provide the version of the software used to				
Bioinformatics and QC metrics	sequence_assembly_software_version	GENEPIO:0100826	used to assemble a sequence.	assemble the sequence.	3.15.5	11.1.1	11.1.1	11.1.1
			The name of the software used to generate the	Provide the name of the software used to				
Bioinformatics and QC metrics	consensus_sequence_software_name	GENEPIO:0001463	consensus sequence.	generate the consensus sequence.	iVar	11.1.1	11.1.1	11.1.1
Bioinformation and QO motified		02/12/10/000/100	The version of the software	gonerate the consensus coquence.	17 61			
			used to generate the	Provide the version of the software used to				
Bioinformatics and QC metrics	consensus_sequence_software_version	GENEPIO:0001469	consensus sequence.	generate the consensus sequence.	1.3	11.1.1	11.1.1	11.1.1
			The percentage of the reference genome covered by					
			the sequenced data, to a					
Bioinformatics and QC metrics	breadth of coverage value	GENEPIO:0001472	prescribed depth.	Provide value as a percent.	95	11.1.1	11.1.1	11.1.1
			The average number of reads					
			representing a given					
Bioinformatics and QC metrics	depth of coverage value	GENEPIO:0001474	nucleotide in the reconstructed sequence.	Provide value as a fold of coverage.	400	11.1.1	11.1.1	11.1.1
Diditionnatics and QC metrics	deptil_oi_coverage_value	GENET 10.0001474	The threshold used as a cut-	Trovide value as a fold of coverage.	400	11.1.1	11.1.1	11.1.1
Bioinformatics and QC metrics	depth_of_coverage_threshold	GENEPIO:0001475	off for the depth of coverage.	Provide the threshold fold coverage.	100	11.1.1	11.1.1	11.1.1
			The percentage of expected					
1			genes identified in the genome being sequenced. Missing	*				
1			genes indicate missing					
1			genomic regions	Provide the genome completeness as a				
Bioinformatics and QC metrics	genome_completeness	GENEPIO:0100844	(incompleteness) in the data.	percent (no need to include units).	85	11.1.1	11.1.1	11.1.1
ĺ			The number of total base pairs					
Bioinformatics and QC metrics	number of base pairs sequenced	GENEPIO:0001482	generated by the sequencing process.	Provide a numerical value (no need to include units).	387566	11.1.1	11.1.1	11.1.1
GINGINGS and GO montos	or_or_oaco_pario_ocqueriocu	-2.12.13.0001402	The total number of non-		557500	1		1
ĺ			unique reads generated by the	Provide a numerical value (no need to				
Bioinformatics and QC metrics	number_of_total_reads	GENEPIO:0100827	sequencing process.	include units).	423867	11.1.1	11.1.1	11.1.1
ĺ			The number of unique reads	Provide a numerical value (no pood to				
Bioinformatics and QC metrics	number of unique reads	GENEPIO:0100828	generated by the sequencing process.	Provide a numerical value (no need to include units).	248236	11.1.1	11.1.1	11.1.1
Significant de mentes	nambaar_uniquo_rada	SE.4E1 10.0100020	The threshold used as a cut-	morado ariitoj.	240230			
1			off for the minimum length of a	Provide a numerical value (no need to				
Bioinformatics and QC metrics	minimum_post-trimming_read_length	GENEPIO:0100829	read after trimming.	include units).	150	11.1.1	11.1.1	11.1.1
ĺ			The number of contigs					
Bioinformatics and QC metrics	number of contigs	GENEPIO:0100937	(contiguous sequences) in a sequence assembly.	Provide a numerical value.	10	11.1.1	11.1.1	11.1.1
5.5iomidaos and QO mentos	sor_or_ormugo	SEI1E 10.0100337	The percentage of the	. 101.de a namenoui value.	10			. 1. 1. 1
			assembly that consists of	Provide a numerical value (no need to				
Bioinformatics and QC metrics	percent_Ns_across_total_genome_length	GENEPIO:0100830	ambiguous bases (Ns).	include units).	2	11.1.1	11.1.1	11.1.1

			The market of eaching	1					
			The number of ambiguous	Provide a numerical value (no need to					
Bioinformatics and QC metrics	Ns per 100 kbp	GENEPIO:0001484	kilobasepairs (kbp).	include units).	342	1:	1.1.1	11.1.1	11.1.1
Bioline mades and QC medice	110_psi_100_iap	OZNZI IO.0001101	The length of the shortest read		0.2				
			that, together with other reads,						
			represents at least 50% of the						
			nucleotides in a set of						
Bioinformatics and QC metrics	N50	GENEPIO:0100938	sequences.	Provide the N50 value in Mb.	150	1:	1.1.1	11.1.1	11.1.1
			The percent of the total number of reads identified as						
			contamination (not belonging						
			to the target organism) in a	Provide the percent contamination value					
Bioinformatics and QC metrics	percent read contamination	GENEPIO:0100845	sequence dataset.	(no need to include units).	2	1:	1.1.1	11.1.1	11.1.1
			The length of the genome	,					
			generated by assembling						
			reads using a scaffold or by	Provide a numerical value (no need to					1
Bioinformatics and QC metrics	sequence_assembly_length	GENEPIO:0100846	reference-based mapping.	include units).	34272	1:	1.1.1	11.1.1	11.1.1
			The length of the genome defined by the most common	Provide a numerical value (no need to					
Bioinformatics and QC metrics	consensus genome length	GENEPIO:0001483	nucleotides at each position.	include units).	38677	1-	1.1.1	11.1.1	11.1.1
Bioline illianes and Qo illeanes	ocnocnous_gonomo_nongui	OZNZI IO.0001 IO	A persistent, unique identifier	Provide the accession number of the	00011				
Bioinformatics and QC metrics	reference genome accession	GENEPIO:0001485	of a genome database entry.	reference genome.	NC 045512.2	1:	1.1.1	11.1.1	11.1.1
			The method used to remove	Provide the deduplication software name	_				
			duplicated reads in a	followed by the version, or a link to a tool					
Bioinformatics and QC metrics	deduplication_method	GENEPIO:0100831	sequence read dataset.	or method.	DeDup 0.12.8	11	1.1.1	11.1.1	11.1.1
				Further details regarding the methods used to process raw data, and/or generate					
				assemblies, and/or generate consensus					
				sequences can. This information can be					
				provided in an SOP or protocol or					
				pipeline/workflow. Provide the name and					
			A description of the overall	version number of the protocol, or a	https://github.com/phac-				
Bioinformatics and QC metrics	bioinformatics_protocol	GENEPIO:0001489	bioinformatics strategy used.	GitHub link to a pipeline or workflow.	nml/ncov2019-artic-nf	1	1.1.1	11.1.1	11.1.1
Taxonomic identification		OFNEDIO 0404000							
information		GENEPIO:0101082	The name of the software						
			used to map sequence reads						
Taxonomic identification			to a reference genome or set	Provide the name of the read mapping	Bowtie2, BWA-MEM,				
information	read_mapping_software_name	GENEPIO:0100832	of reference genes.	software.	TopHat	1:	1.1.1	11.1.1	11.1.1
			The version of the software						
			used to map sequence reads						
Taxonomic identification		05115010 010000	to a reference genome or set	Provide the version number of the read					
information	read_mapping_software_version	GENEPIO:0100833	of reference genes. The name of the taxonomic	mapping software.	2.5.1	1	1.1.1	11.1.1	11.1.1
Taxonomic identification			reference database used to	Provide the name of the taxonomic					
information	taxonomic reference database name	GENEPIO:0100834	identify the organism.	reference database.	NCBITaxon	1:	1.1.1	11.1.1	11.1.1
			The version of the taxonomic						
Taxonomic identification			reference database used to	Provide the version number of the					
information	taxonomic_reference_database_version	GENEPIO:0100835	identify the organism.	taxonomic reference database.	1.3	1.	1.1.1	11.1.1	11.1.1
			The filename of the report	Provide the filename of the report					
Taxonomic identification	to the second of	OFNEDIO 0404074	containing the results of a	containing the results of the taxonomic	WWtax_report_Feb1_2024.				
information	taxonomic_analysis_report_filename	GENEPIO:0101074	taxonomic analysis.	analysis. Providing the date that an analyis was	doc	1	1.1.1	11.1.1	11.1.1
				performed can help provide context for					
				tool and reference database versions.					
				Provide the date that the taxonomic					
Taxonomic identification				analysis was performed in ISO 8601					
information	taxonomic_analysis_date	GENEPIO:0101075	was performed.	format, i.e. "YYYY-MM-DD".	2024-02-01	1.	1.1.1	11.1.1	11.1.1
Tavanania idantifiantian			A description of the criteria	Describe a description of the condition					
Taxonomic identification information	read manning criteric	GENEPIO:0100836	used to map reads to a reference sequence.	Provide a description of the read mapping criteria.	Phred score >20	4.	1.1.1	11.1.1	11.1.1
Public repository information	read_mapping_criteria	GENEPIO:0100836 GENEPIO:0100477	rererence sequence.	ontend.	r meu score -20	1	ta la l	11.1.1	111.1.1
- assic repository information				The name of the agency should be written	Environment and Climate				
				out in full, (with minor exceptions) and be	Change Canada (EC)				
				consistent across multiple submissions. If	[GENEPIO:0100555]				
			The name of the agency that	submitting specimens rather than	-				
Dublic consistent in facility		CENEDIO COCALES	submitted the sequence to a	sequencing data, please put the "National			0.0	200	200
Public repository information	sequence_submitted_by	GENEPIO:0001159	database.	Microbiology Laboratory (NML)".  Provide the name of an individual or their		3.	.0.0	3.0.0	3.0.0
				job title. As personnel turnover may rende	r				
				the contact's name obsolete, it is					
			The name or title of the	prefereable to provide a job title for					
			contact responsible for follow-	ensuring accuracy of information and					
				institutional memory. If the information is					
				unknown or cannot be provided, leave					
Public repository information	sequence_submitted_by_contact_name	GENEPIO:0100474	database.	blank or provide a null value.	Enterics Lab Manager	3.	.0.0	3.0.0	3.0.0
			The email address of the	The email address can represent a specific	RespLab@lab.ca				
Public repository information	equipped submitted by contact consil	GENEPIO:0001165	agency responsible for submission of the sequence.	individual or lab e.g. johnnyblogs@lab.ca, or RespLab@lab.ca			.0.0	3.0.0	3.0.0
	sequence_submitted_by_contact_email	GENEPIO:0001705	SUDITIONS OF THE SEQUENCE.	UI NESPLAD(WIAD.CA		3.	.U.U	J.U.U	3.0.0

				If the isolate is associated with a published	PMID: 33205991			
1				work which can provide additional				
İ				information, provide the PubMed identifier				
l				of the publication. Other types of				
Public repository information	publication_ID	GENEPIO:0100475	The identifier for a publication.	identifiers (e.g. DOI) are also acceptable.		3.0.0	3.0.0	3.0.0
l				If the complete from a specific burner or	Pathogen.env			
l				If the sample is from a specific human or animal, put "Pathogen.cl". If the sample is				
			The attribute package used to	from an environmental sample including				
			structure metadata in an	food, feed, production facility, farm, water				
Public repository information	attribute_package	GENEPIO:0100476	INSDC BioSample.	source, manure etc, put "Pathogen.env".		3.0.0	3.0.0	3.0.0
				Required if submission is linked to a	PRJNA12345			
				BioProject. BioProjects are an organizing tool that links together raw sequence data,				
				assemblies, and their associated				
				metadata. A valid BioProject accession				
l				has prefix PRJN, PRJE or PRJD, e.g.,				
				PRJNA12345 and is created once at the				
				beginning of a new sequencing project.				
		05115510 0001100	of the BioProject(s) to which	Your laboratory can have one or many				
Public repository information	bioproject_accession	GENEPIO:0001136	the BioSample belongs.	BioProjects.  Store the accession returned from the	SAMN14180202	3.0.0	3.0.0	3.0.0
				BioSample submission. NCBI BioSamples	SAMN14180202			
				will have the prefix SAMN, whileEMBL-				
			The identifier assigned to a	EBI BioSamples will have the prefix				
Public repository information	biosample_accession	GENEPIO:0001139	BioSample in INSDC archives.	SAMEA.		3.0.0	3.0.0	3.0.0
			The Sequence Read Archive		SRR11177792			
1			(SRA), European Nucleotide Archive (ENA) or DDBJ					
1			Sequence Read Archive					
1			(DRA) identifier linking raw					
			read data, methodological	Store the accession assigned to the				
			metadata and quality control	submitted "run". NCBI-SRA accessions				
			metrics submitted to the	start with SRR, EBI-ENA runs start with				
Public repository information	SRA_accession	GENEPIO:0001142	INSDC. The GenBank/ENA/DDBJ	ERR and DRA accessions start with DRR.		3.0.0	3.0.0	3.0.0
1			identifier assigned to the		MN908947.3			
			sequence in the INSDC	Store the accession returned from a				
Public repository information	GenBank_accession	GENEPIO:0001145	archives.	GenBank/ENA/DDBJ submission.		3.0.0	3.0.0	3.0.0
Risk assessment information		GENEPIO:0100478						
				Risk assessment requires detailed information regarding the quantities of a	Number of total samples			
1				pathogen in a specified location,	collected, Number of positive samples			
1				commodity, or environment. As such, it is	positive samples			
				useful for risk assessors to know what				
i								
1				types of information are available through				
				documented methods and results. Provide				
				documented methods and results. Provide the metric types that are available in the				
				documented methods and results. Provide the metric types that are available in the surveillance project sample plan by				
				documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The				
				documented methods and results. Provide the metric types that are available in the surveillance project sample plan by				
				documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard				
			Metrics regarding the	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism", "Average count of indicator				
			prevalence of the pathogen of	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are " Number of total samples collected", "Number of positive samples", "Average count of hazard organism", "Average count of indicator organism". You do not need to provide the				
Pick assessment information	nevelopes matrice	GENEDIO-0100400	prevalence of the pathogen of interest obtained from a	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism". "Average count of indicator organism". You do not need to provide the actual values, just indicate that the		200	300	300
Risk assessment information	_prevalence_metrics	GENEPIO:0100480	prevalence of the pathogen of	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organism". You do not need to provide the actual values, just indicate that the information is available.		3.0.0	3.0.0	3.0.0
Risk assessment information	_prevalence_metrics	GENEPIO:0100480	prevalence of the pathogen of interest obtained from a	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that	Hazard organism counts (i.e. Salmonella) do not	3.0.0	3.0.0	3.0.0
			prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are " Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organism". "Average count of indicator organism" is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using	Hazard organism counts (i.e. Salmonella) do not			
Risk assessment information	_prevalence_metrics _prevalence_metrics_details	GENEPIO:0100480  GENEPIO:0100481	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars.	3.0.0	3.0.0	3.0.0
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism". "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to sample sor organism counts in the sample plan that might be informative, provide details using free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between	3.0.0	3.0.0	3.0.0
			prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive sampless", "Average count of hazard organism", "Average count of indicator organism". You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir			
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of nazard organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production	GENEPIO:0100481 GENEPIO:0100482	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to sample por organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production	GENEPIO:0100481 GENEPIO:0100482	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production	GENEPIO:0100481 GENEPIO:0100482	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organisme". "Average count of indicator organisme". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organisme counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production	GENEPIO:0100481 GENEPIO:0100482	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organisme". "Average count of indicator organisme". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organisme counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483 GENEPIO:0100484	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of nazard organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483 GENEPIO:0100484	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production system.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organism". "Average count of indicator organisme". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to sample sor organisme counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.  The names of the drug have already been matched with measurement, breakpoint,	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]  2% cranberry solution mixed in feed	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483 GENEPIO:0100484	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production system.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.  The names of the drug have already been matched with measurement, breakpoint, and phenotype fields in the template. No	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]  2% cranberry solution mixed in feed  Amoxicillin-clavulanic	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483 GENEPIO:0100484	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production system.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of hazard organism". "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to sample pan that might be informative, provide details using free text.  Provide the stage of food production as free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.  The names of the drug have already been matched with measurement, breakpoint, and phenotype fields in the template. No need to add these unless the drug of Need to add the sea the supplement the need to add the sea the need to add the sea the need to add	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]  2% cranberry solution mixed in feed  Amoxicillin-clavulanic	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483 GENEPIO:0100484	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production system.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples", "Average count of indicator organism". "Average count of indicator organism". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.  The names of the drug have already been matched with measurement, breakpoint, and phenotype fields in the template. No	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]  2% cranberry solution mixed in feed  Amoxicillin-clavulanic	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0
Risk assessment information Risk assessment information Risk assessment information	prevalence_metrics_details stage_of_production experimental_intervention	GENEPIO:0100481 GENEPIO:0100482 GENEPIO:0100483 GENEPIO:0100484	prevalence of the pathogen of interest obtained from a surveillance project.  The details pertaining to the prevalence metrics from a surveillance project.  The stage of food production.  The category of the experimental intervention applied in the food production system.  The details of the experimental intervention applied in the food production system.	documented methods and results. Provide the metric types that are available in the surveillance project sample plan by selecting them from the pick list. The metrics of interest are "Number of total samples collected", "Number of positive samples," "Average count of hazard organism". "Average count of indicator organism". "Average count of indicator organisme". "You do not need to provide the actual values, just indicate that the information is available. If there are details pertaining to sample sor organisme counts in the sample plan that might be informative, provide details using free text.  Provide the stage of food production as free text.  In some surveys, a particular intervention in the food supply chain in studied. If there was an intervention specified in the sample plan, select the intervention category from the pick list provided.  If an experimental intervention was applied in the survey, provide details in this field as free text.  The names of the drug have already been matched with measurement, breakpoint,	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars. Abattoir  Vaccination [NCIT:C15346]  2% cranberry solution mixed in feed  Amoxicillin-clavulanic	3.0.0 3.0.0 3.0.0	3.0.0	3.0.0 3.0.0 3.0.0

				Provide the name of the agency,	Canadian Food Inspection			
				organization or institution that performed	Agency (CFIA)			
			The name of the organization that performed the	the AMR testing, in full (avoid abbreviations). If the information is	[GENEPIO:0100552]			
			antimicrobial resistance	unknown or cannot be provided, leave				
Antimicrobial resistance	AMR_testing_by	GENEPIO:0100511	testing.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
			The name of the lab within the	Provide the name of the specific laboratory that performed the AMR testing	Topp Lab			
			organization that performed	(avoid abbreviations). If the information is				
			the antimicrobial resistance	unknown or cannot be provided, leave				
Antimicrobial resistance	AMR_testing_by_laboratory_name	GENEPIO:0100512	testing.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
				Provide the name of an individual or their job title. As personnel turnover may render				
				the contact's name obsolete, it is more				
				preferable to provide a job title for				
			the individual's role in the	ensuring accuracy of information and				
			organization that performed the antimicrobial resistance	institutional memory. If the information is unknown or cannot be provided, leave				
Antimicrobial resistance	AMR_testing_by_contact_name	GENEPIO:0100513	testing.	blank or provide a null value.		3.0.0	3.0.0	3.0.0
			- U	Provide the email associated with the	johnnyblogs@lab.ca			
1				listed contact. As personnel turnover may				
				render an individual's email obsolete, it is more preferable to provide an address for				
			The email of the individual or	a position or lab, to ensure accuracy of				
			the individual's role in the	information and institutional memory. If the	e			
			organization that performed	information is unknown or cannot be				
Antimicrobial resistance	AMR_testing_by_contact_email	GENEPIO:0100514	the antimicrobial resistance testing.	provided, leave blank or provide a null value.		3.0.0	3.0.0	3.0.0
Antimicrobial resistance	AMIX_testing_by_contact_email	GENET 10:0100314	The date the antimicrobial	Provide the date according to the ISO	2022-04-03	3.0.0	3.0.0	3.0.0
			resistance testing was	8601 standard "YYYY-MM-DD", "YYYY-				
	AMR_testing_date	GENEPIO:0100515	performed.	MM" or "YYYY".		3.0.0	3.0.0	3.0.0
			The antimicrobial resistance phenotype, as determined by		Susceptible antimicrobial phenotype [ARO:3004302]			
			the antibiotic susceptibility		prienttype [Arto.3004302]			
			measurement and testing	Select a phenotype from the pick list				
Antimicrobial resistance	antimicrobial_resistance_phenotype		standard for this antibiotic	provided. This field should only contain a number	4	7.7.5		3.0.0
			The measured value of	(either an integer or a number with	4			
Antimicrobial resistance	antimicrobial measurement		antimicrobial resistance.	decimals).		7.7.5		3.0.0
				Select the units from the pick list provided.	. ug/mL [UO:0000274]			
			The units of the antimicrobial	Use the Term Request System to request				
Antimicrobial resistance	antimicrobial measurement units		resistance measurement.	the addition of other units if necessary.		7.7.5		3.0.0
				Select the comparator sign from the pick	greater than (>)			0.0.0
			The qualifier associated with	list provided. Use the Term Request	[GENEPIO:0001006]			
Antimicrobial resistance	antimicrobial measurement sign		the antibiotic susceptibility measurement	System to request the addition of other signs if necessary.		7.7.5		3.0.0
				Select a typing method from the pick list	Broth dilution	1		
				provided. Use the Term Request System	[ARO:3004397]			
Antimiarabial registance	antimicrobial laboratory typing method			to request the addition of other methods if necessary.		7.7.5		3.0.0
Antimicrobial resistance	antimicrobiai_laboratory_typing_method		antibiotic susceptibility testing.	Select a typing platform from the pick list	Sensitire [ARO:3004402]	1.1.5		3.0.0
				provided. Use the Term Request System	, ,			
				to request the addition of other platforms if	f			
Antimicrobial resistance	antimicrobial_laboratory_typing_platform	_	antibiotic susceptibility testing	necessary.	CMV3AGNF	7.7.5		3.0.0
			The specific name and version		CIVIVOAGINE			
			of the plate, panel, or other	Include any additional information about				
Antimiorabial resisters	antimicrobial_laboratory_typing_platform_ver		platform used for antibiotic	the antimicrobial susceptibility test such as		775		200
Antimicrobial resistance	sion		susceptibility testing.  The name of the vendor of the	the drug panel details.  Provide the full name of the company	Sensititre [ARO:3004402]	7.7.5		3.0.0
Antimicrobial resistance Antimicrobial resistance	antimicrobial_vendor_name		testing platform used.	(avoid abbreviations).	CONSIGNE [AIVO.3004402]	7.7.5		3.0.0
			The testing standard used for		Clinical Laboratory and			
	antimicrobial testing standard		determination of resistance phenotype	Select a testing standard from the pick list provided.	Standards Institute (CLSI) [ARO:3004366]	7.7.5		3.0.0
	anumicrobia_testing_standard	_	The version number	provided.	[ARO:3004366]	7.7.5		3.0.0
			associated with the testing					
			standard used for	If applicable include a version and the				
Antimicrobial resistance	antimicrobial testing standard version		determination of resistance phenotype	If applicable, include a version number for the testing standard used.	M100	7.7.5		3.0.0
Antimicrobial resistance	anamaropia_tosting_standard_version		The additional details	and tooking standard dood.	27th ed. Wayne, PA:			5.0.0
			associated with the testing	L	Clinical and Laboratory			
			standard used for	This information may include the year or	Standards Institute; 2017.			
Antimicrobial resistance	antimicrobial testing standard details		determination of resistance phenotype	location where the testing standard was published. If not applicable, leave blank.		7.7.5		3.0.0
Antimicrobial resistance	anumoropia_testing_standard_details		The maximum measurement,	pasiisiica. Ii iiot applicasie, leave sidlik.	8	1.1.5		0.0.0
			in the units specified in the					
			"AMR_measurement_units"	This field should only contain a number				
			field, for a sample to be considered "sensitive" to this	(either an integer or a number with decimals), since the "<=" qualifier is				
Antimicrobial resistance	antimicrobial susceptible breakpoint		antibiotic	implied.		7.7.5		3.0.0
				•	-	 		

Antimicrobial resistance	antimicrobial intermediate breakpoint	The intermediate measurement(s), in the units specified in the specified in the "AMR_measurement_units" field, where a sample would be considered to have an "intermediate" phenotype for this antibiotic	16	7.7.5	3.0.0
Antimicrobial resistance	antimicrobial resistant breakpoint	The minimum measurement, in the units specified in the "AMR_measurement_units" field, for a sample to be considered "resistant" to this antibiotic	32	7.7.5	3.0.0