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- Endocrinology
- Environmental health
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- Food safety
- Metabolomics
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- Packaging
- Pet foods
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- What role does the gut microbiome play in the development of dementia in the aging population?
- What is the efficacy of caffeine as an ergogenic aid?
- What is the impact of heat stress on poultry and how can it be minimized?
- What packaging materials can potentially transfer estrogenic compounds into food?

Update Frequency Weekly

Geographic Coverage International

Date Coverage 1969 - present

Document Types Journal articles, patents, standards, dissertations, books and reports

Sources Nearly 5,500 scientific journals from 62 countries, plus thousands of other sources including patents, standards, reports, dissertations and books.

Publisher

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Occurrence, quantification, pulse types, and antimicrobial susceptibility of *Salmonella* sp. isolated from chicken meat in the state of Parana, Brazil

Perin, A P; Martins, B T F; Barreiros, M A B; Yamatogi, R S; Nero, L A; et al. **Brazilian Journal of Microbiology** 51.1: 335-345. (2020)

Highlighting: Off | Single | Multi

AB

Abstract (summary) [Translate](#)

The aim of this work was to verify the occurrence, quantification, pulse types, and antimicrobial susceptibility profiles of *Salmonella* sp. isolated from chicken meat produced and marketed in the state of Parana, considered to be the state with the highest production of poultry meat in Brazil. Ninety-five of 300 (31.5%) frozen cuts of chicken were found to contain *Salmonella* sp., and 98 different isolates of *Salmonella* sp. were cultured from the positive samples. Quantification showed low *Salmonella* sp. loading, ranging from 0.12 to 6.4 MPN/g. The antimicrobial resistance test was performed against 16 agents from 6 different classes. All isolates were sensitive to meropenem, imipenem, chloramphenicol, and amikacin. The highest resistance rates were observed for nalidixic acid (95%), tetracycline (94%), doxycycline (94%), ampicillin (87%), amoxicillin with clavulanic acid (84%), ceftriaxone (79%), and ciprofloxacin (76%). A total of 84 (85.7%) of the isolates were identified with a multidrug resistant profile, 13 of which were found to have encoding genes extended-spectrum beta-lactamase (ESBL), especially *bla*_{CTX-M-2} e *bla*_{TEM-1}. The major serovars identified were *S. Typhimurium* (43%) and *S. Heidelberg* (39%). The third most isolated serovar was *S. Ndolo* (6%), without previous reports of its presence in poultry meat in Brazil. Molecular characterization of *S. Typhimurium* and *S. Heidelberg* isolates by pulsed field gel electrophoresis (PFGE) showed a clonal relationship between all isolates of the same serovar (genetic similarity greater than 80%). Isolates of *S. Typhimurium* and *S. Heidelberg* with 100% similarity were found in up to five different geographic regions of the state, showing the potential for the spread of this pathogen in the Parana poultry chain. Epidemiological surveys like this are important to understand the dynamics of dissemination and to monitor the prevalence of pathogens in the final products of poultry chains. In addition, to know the resistance profile of strains of *Salmonella* sp. present in food that contributes to the adoption of faster and more effective therapeutic measures, when necessary. ©Sociedade Brasileira de Microbiologia 2019.

SU

Indexing (details) Cite

Subject Meat, poultry and game -- Poultry and products;
AMOXICILLIN;
AMPICILLIN;
ANTIBIOTICS;
ANTIBIOTICS RESISTANCE;
BRAZIL;
CHICKEN MEAT;
CHLORAMPHENICOL;
CIPROFLOXACIN;
DOXYCYCLINE;
FOOD SAFETY ANIMAL FOODS;
GENES;
GENETICS;
NALIDIXIC ACID;
PENICILLINS;
SALMONELLA;
SALMONELLA HEIDELBERG;
SALMONELLA TYPHIMURIUM;
TETRACYCLINES

TI	Title	Occurrence, quantification, pulse types, and antimicrobial susceptibility of Salmonella sp. isolated from chicken meat in the state of Parana, Brazil
AU AUFN,AULN	Author	Perin, A P; Martins, B T F; Barreiros, M A B; Yamatogi, R S; Nero, L A; Bersot, L dos S.
	Correspondence author	Department of Veterinary Science, Palotina Sector, Federal University of Parana, Palotina, 85950-000, Parana, Brazil. E-mail lucianobersot@ufpr.br.
LA	Language	English
SL	Language of abstract	English
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FAV	Copyright	© 2012 International Food Information Service (IFIS Publishing) operating as IFIS
UD	First available	2020-05-14
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	Database	FSTA® (1969 - current)

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Abstract present	ABANY	su(salmonella) AND abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts.
Accession number	AN	an(2020-08-Sn3578)	A unique document identification number assigned by the information provider.

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All fields	ALL	all(zoonotic n/1 foodborne n/1 transmission)	Searches all fields in bibliographic files. Use proximity or Boolean operators to narrow or broaden search results and double quotes for a precise phrase.
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Author ¹ Author First Name Author Last Name	AU AUFN AULN	au(“bersot, l”*) aufn(l*) auln(bersot)	Includes all Authors.
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Corporate author	CA	ca(institute of brewing)	
Date created	DCRE	dcre(20200514) dcre(>20200501)	The date on which the information provider created the record.
Document title			See Title
Document type	DTYPE	dtype(article)	The majority of items in FSTA are journal articles, but there are several other document types: patents, reviews, standards, dissertations, books and reports.
DOI	DOI	doi(10.1007/s42770-019-00188-x)	Search the portion of the DOI that comes after http://dx.doi.org/ .
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ISSN	ISSN	issn(1678-4405) issn(16784405)	Also searchable via the Look Up Citation tool.
Issue	ISS	iss(1)	Also searchable via the Look Up Citation tool.
Journal title	JN	jn(brazilian journal of microbiology)	Look up list available under Publication title.
Language	LA	la(english)	The language in which the document was originally published.
Summary language	SL	sl(english)	All abstracts in FSTA are in English.
Pagination	PG	pg(335-345)	The start page is searchable on the Look Up Citation page.
Patent inventor	INV	inv(germain j s)	

Field Name	Field Code	Example	Description and Notes
Patent assignee	PA	pa(lyckeby amylex as)	
Patent priority date	PRD	prd(20080125)	
Patent publication country	PBC	pbc(cs)	
Patent publication number	PN	pn(284741)	
Publication title ¹	PUB	pub.exact(journal of microbiology)	Title of publication where document originally appears, usually a periodical title. Use 'exact' to disambiguate titles.
Publication date	PD	pd(2020) pd(>20190601)	Date range searching is supported.
Publication type	PSTYPE	pstype(journal)	
Publication year	YR PY	yr(2020) yr(2018-2021)	Displayed in <i>Publication date</i> field. Date range searching is supported.
Source information	SRC	src(microbiology 51)	Includes Publication Title, Issue, Volume, ISSN, Publication Date, and Pagination. Also searchable via the Look Up Citation tool.
Subject ¹	SU	su(doxycycline) su.exact(antibiotics resistance) su("meat poultry and game")	The Subject field includes FSTA thesaurus terms and section headings and subheadings. Use 'exact' to disambiguate terms.
Main subject	SUBT	subt(salmonella)	SUBT searches terms from the <i>Subject</i> display field only.
Title	TI	ti(salmonella and chicken and meat)	Includes the Title, Foreign Language Title, Alternate Title and Subtitle, when available.
Title only	TIO	tio(antimicrobial susceptibility)	Searches only the Title, not Subtitle or Alternate Title.
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² Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

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Author, Subject

and in the fields drop-down only for:

Publication title

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“Narrow Results By” filters

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Author, Language, Publication Title, Subject, Document type and Publication date.

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