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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

IFIS
Ground Floor, 115 Wharfedale Road,
Winnersh,
Wokingham, Berkshire, RG41 5RB
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Date revised: 2 August 2021

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TI

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

AU,AUFN, AULN,PUB

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.

Indexing (details) Cite

SU

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 DTYPE	**Language of abstract**	English
	Document type	Journal Article
PUB VO ISS	**Publication title**	Brazilian Journal of Microbiology
	Volume	51
	Issue	1
PG ISSN	**Pagination**	335-345
	ISSN	1678-4405
PSTYPE	**Publication type**	Journal
DOI NR	**DOI**	http://dx.doi.org/10.1007/s42770-019-00188-x
PD,YR	**Number of references**	66 ref.
	Publication date	2020
DCRE	**Date created**	2020-05-14
AN	**Source attribution**	FSTA®, © Publisher specific
	Accession number	2020-08-Sn3578
	Document URL	https://dialog.proquest.com/professional/docview/2402277438?accountid=174335
	Copyright	© 2012 International Food Information Service (IFIS Publishing) operating as IFIS
FAV UD	**First available**	2020-05-14
	Updates	2020-05-14
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First author	FAU	fau(perin a)	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse.
Author affiliation	AF	af(federal university of parana)	Includes as much data as is available in the original document, such as department, organization, address, city, state, country, author email, etc.
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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.
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Patent inventor	INV	inv(germain j s)	
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 *Publication date* 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.
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Title only	TIO	tio(antimicrobial susceptibility)	Searches only the Title, not Subtitle or Alternate Title.
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Author, Subject

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