

CN 11-5956/TS  
ISSN 2095-0381  
CODEN: BAZJAC

# 食品安全质量检测学报

## JOURNAL OF FOOD SAFETY & QUALITY

本期重点:

- 上海市食品药品检验所食品检测研究专题

本期专题:

- 食品快速检测技术及智能装备

2016年7月

第7卷 第7期

Vol. 7 No. 7



中国科技核心期刊

DOAJ收录

美国《化学文摘》(CA)收录

英国《食品科学技术文摘》(FSTA)收录

俄罗斯《文摘杂志》(AJ)收录

英国国际农业与生物科学研究中心(CABI)全文收录

《中国学术期刊网络出版总库》(CNKI)全文收录

"万方数据 数字化期刊群"全文收录

ISSN 2095-0381



# 食品安全质量检测学报

2016年7月 第7卷 第7期

## 目次

### 本期重点：上海市食品药品检验所食品检测研究专题

上海市食品药品检验所食品检测研究专题 .....	2571-2574
国内外真菌毒素检测方法研究现状及进展 .....	张思思, 陆继伟, 王少敏, 等 2575-2586
上海市 2011~2015 年保健食品中铅、砷、汞污染状况分析及评价 .....	程益清, 夏晶, 李丽敏, 等 2587-2591
液相微萃取技术及其在食品分析中应用现状 .....	李静, 王柯, 刘畅 2592-2603
运动员特供食品中兴奋剂检测研究进展 .....	李永吉, 陈燕, 王柯, 等 2604-2610
水产品中生物胺的检测方法研究进展 .....	焦广睿, 王柯, 刘畅 2611-2616
咖啡中有关呋喃含量的研究进展 .....	曾思瑜, 王柯, 刘畅 2617-2621
国内外化学检测领域能力验证结果统计方法的探讨 .....	伍恒, 陈祝康, 顾颂青 2622-2629
水产品中麻痹性贝类毒素的评价及相关研究 .....	黄卓, 王依群, 唐黎明 2630-2633
国内外水产品及水产制品分类研究 .....	刘章, 童仁平, 胡鹏, 等 2634-2644
铜绿假单胞菌对食品中沙门氏菌检测干扰作用的评价 .....	李琼琼, 杨燕, 范一灵, 等 2645-2651
微波消解-电感耦合等离子体质谱法同时测定药食两用中药材中的 15 种元素 .....	陈虹, 夏晶, 彭韦楠, 等 2652-2657
高效液相色谱-原子荧光联用技术测定水产品中无机砷 .....	吴思霖, 于建, 王欣美, 等 2658-2662
超高效液相色谱-三重串联四级杆质谱法测定乌梅中 19 种深色染色色素 .....	胡青, 林媛, 张魁, 等 2663-2670
高效液相色谱法测定黄瓜和番茄中苯丁锡残留量 .....	李雯婷, 苗水, 陆继伟, 等 2671-2676
QuEChERS-高效液相色谱-串联质谱法同时测定果蔬中 26 种植物生长调节剂残留 .....	张沪文, 焦广睿, 王柯, 等 2677-2689
高效液相色谱法同时测定豆浆中麦芽酚、乙基麦芽酚、香兰素、甲基香兰素和乙基香兰素 5 种香料 .....	迟秋池, 李晓雯, 何家今, 等 2690-2695
液质联用与气质联用测定水产品中雌二醇残留的方法比较 .....	张沪文, 王柯, 刘畅 2696-2703
超高效液相色谱-四级杆-飞行时间串联质谱法检测中药及保健食品中 21 种非法添加的降脂类药物 .....	于泓, 胡青, 张魁, 等 2704-2709
一种新型他达拉非衍生物的分离和鉴定 .....	冯睿, 于泓, 孙健, 等 2710-2714
柱前衍生-高效液相色谱法测定保健食品中 16 种氨基酸的含量 .....	孙健, 张魁, 胡青, 等 2715-2719
液相色谱-四极杆飞行时间质谱法同时测定动物源性食品中的 5 种抗病毒类药物 .....	王柯, 陈燕, 李晓雯, 等 2720-2726
液相色谱-串联质谱法同时测定蜂蜜中 17 种磺胺类药物的残留量 .....	徐慧, 陈燕, 王柯, 等 2727-2734
脂溶性化妆品原料中溴代十六烷检测方法的研究 .....	于建, 郑荣, 王枚博, 等 2735-2739
食品检验中乳酸菌鉴定方法的探讨 .....	蒋波, 房蕊, 刘冬玲, 等 2740-2746
能力验证乳粉中乳酸菌计数不确定度的评定 .....	杨燕, 李琼琼, 宋光艳, 等 2747-2750
液相色谱-串联质谱法测定牛奶中氯霉素残留量的不确定度评定 .....	李静, 夏苏捷, 刘晓云, 等 2751-2757
食品中金黄色葡萄球菌定量检测能力验证结果与分析 .....	钟玮, 张宁, 刘玉萍, 等 2758-2762

### 本期专题：食品快速检测技术及智能装备

新型 C <sub>18</sub> 核壳结构色谱柱快速分析人参中的 3 种皂苷 .....	岳焕新, 薛昆鹏, 金小青, 等 2763-2769
食品检测即用型液体培养基产品的评价研究 .....	高飞, 骆海朋, 任秀, 等 2770-2774

转基因速测卡的现场应用性能及其可行性研究.....	何景, 李慧, 蔡军, 等	2775-2780
石墨炉-原子吸收法测定饮用纯净水中铅含量的不确定度.....	龚纯, 刘小辉	2781-2784
直接沉淀滴定法检测鱿鱼丝中氯化钠的不确定度评定.....	严卓彦	2785-2789
QuEChERS 前处理高效液相色谱-串联质谱法同时测定食品中 6 种工业染料 .....	张燕, 舒平, 张妮妮, 等	2790-2797
微波消解-电感耦合等离子体质谱法快速测定方便面中的重金属.....	王绍青, 高洁, 周宇, 等	2798-2802
<b>食品分析与检测</b>		
食品中异物种类来源及检测技术评述.....	靳欣欣, 潘立刚, 王冬	2803-2808
中药材及食品中丙烯酰胺的检测及抑制方法的研究进展.....	李亚丽, 刘晓徐, 逢世峰, 等	2809-2814
肌蛋白疾病及其肉食品安全的研究进展.....	薛超波, 王萍亚, 赵进, 等	2815-2820
食用菌中黄酮类物质的研究进展.....	宫雪, 张博, 辛广, 等	2821-2827
食用酒精和工业酒精的光谱检测技术研究.....	严峰, 杨俊杰, 史久林	2828-2834
雪莲果功能性饮料的制备研究.....	高辉, 贾长英, 吕忠政, 等	2835-2839
基于高通量测序的冷冻南极磷虾中细菌菌群结构分析.....	江艳华, 姚琳, 李凤铃, 等	2840-2845
超高效液相色谱-串联质谱法测定鱼油软胶囊中的合成抗氧化剂.....	谢强胜, 张媛媛, 李启艳, 等	2846-2851
气相色谱-质谱法测定水产品中的 10 种含氯苯酚及其盐类的含量.....	符昌雨, 段文锋, 施敬文, 等	2852-2859
超高效液相色谱-串联质谱法测定植物油中邻氨基苯甲二酰胺类农药.....	张云, 黄传辉, 陈泽宇	2860-2866
10 种海参营养成分分析.....	赵玲, 马红伟, 曹荣, 等	2867-2870
面粉中氨基脲含量的测定及偶氮甲酰胺和氨基脲转化规律的研究.....	姚敬, 黄伟雄, 李敏, 等	2873-2877
自动顶空-气相色谱-质谱联用法检测食品纸包装材料中 9 种烯烃类化合物 .....	何敏恒, 林晓佳, 严婉盈, 等	2878-2885
顶空-气相色谱-质谱法测定婴幼儿米粉中的脂类降解产物.....	陈树东, 蔡玮红, 林晓佳, 等	2886-2894
散装酱卤鸭肉制品中特定腐败菌的确定.....	谢萍, 徐明生, 尹忠平, 等	2895-2903
高效液相色谱-串联质谱法测定豆制品中的二甲基黄残留量.....	丁安帮, 熊晓辉, 施祖灏, 等	2904-2908
玉米芯制备木糖的工艺研究.....	许国辉, 朱振元, 肖林	2909-2913
蛹虫草功能饮料稳定性的研究.....	朱振元, 刘雪蕊, 孙会轻, 等	2914-2919
4 种方法提取牛肉干 DNA 的效果比较.....	石盼盼, 魏法山, 冯波	2920-2925
气相色谱-串联质谱法测定蔬菜中氟乐灵等 8 种农药的残留量.....	潘虎, 代艳娜, 张一帆, 等	2926-2930
柱前衍生高效液相色谱法检测水产品中甲醛的含量.....	唐穗平	2931-2936
食品能力验证中沙门氏菌的分离鉴定与血清分型.....	陈雨欣, 苏粉良, 鞠慧萍, 等	2937-2941
添加豆乳对 Mozzarella 混合干酪微观结构、功能和质构特性的影响.....	赵平, 谢静莉	2942-2950
生猪肉中沙门氏菌的分离与鉴定.....	柴云雷, 郭丽, 马雪, 等	2951-2955
固相分散萃取-气相色谱-质谱法测定药酒中 15 种邻苯二甲酸酯的含量.....	许蓉蓉, 覃兴佞	2956-2962
石墨炉原子吸收分光光度法测定自制阳性猪肉中铅的不确定度评定 .....	陈晓, 刘剑虹, 张可冬, 等	2963-2967
<b>食品安全监管</b>		
浅析当前中国对食品生产监管的举措.....	杨晓宇, 张娜	2968-2972
大数据技术在动物源食品质量安全管理创新体系中的应用.....	谭业平, 胡肆农, 陆昌华, 等	2973-2981
湛江对虾出口现状及对策研究.....	赵海军, 霍琪, 刘建芳, 等	2982-2989
国内外微生物源食源性疾病监测及其防控进展.....	包丽娟	2990-2994
2012~2015 年贵州省餐饮食品中色素检测结果分析.....	杨娟艳, 杨园园, 王本江, 等	2995-2999
烟台市售蔬菜的重金属含量及食用安全性评价.....	董峰光, 王朝霞, 官春波, 等	3000-3005
华容县酱腌菜二氧化硫残留问题的调查.....	张玉梅, 许炼	3006-3009
投稿须知.....		3010-3011

# Journal of Food Safety and Quality

Jul, 2016 Vol. 7 No. 7 Monthly

## Contents

### Highlight: Relevant research papers on inspection by Shanghai Institute for Food and Drug Control

- Relevant research papers on inspection by Shanghai Institute for Food and Drug Control..... 2571-2574  
Current status and advances of domestic and international determination methods of mycotoxins  
.....ZHANG Si-Si, *et al* 2575-2586  
Analysis and evaluation of Pb, As and Hg in health food in Shanghai from 2011 to 2015  
..... CHENG Yi-Qing, *et al* 2587-2591  
Liquid-phase microextraction technique and its application on food analysis ..... LI Jing, *et al* 2592-2603  
Advance on detection methods of athletes' food-borne stimulant ..... LI Yong-Ji, *et al* 2604-2610  
Research progress on determination methods of biogenic amines in aquatic products  
..... JIAO Guang-Rui, *et al* 2611-2616  
Research progress on content of furan in coffee ..... ZENG Si-Yu, *et al* 2617-2621  
Discussion on statistical methods used in analytical chemistry proficiency testing both in China and abroad  
..... WU Heng, *et al* 2622-2629  
Assessment and related research of paralytic shellfish poisons in aquatic products .... HUANG Zhuo, *et al* 2630-2633  
Classification of aquatics and aquatic products in domestic and overseas..... LIU Zhang, *et al* 2634-2644  
Evaluation on the interference of *Pseudomonas aeruginosa* to *Salmonella* detection in food samples  
.....LI Qiong-Qiong, *et al* 2645-2651  
Simultaneous determination of 15 elements in Chinese herbal medicines with both food and medicine by  
inductively coupled plasma mass spectrometry ..... CHEN Hong, *et al* 2652-2657  
Determination of inorganic arsenic in aquatic products by atomic fluorescence spectrometry coupled  
with high performance liquid chromatography ..... WU Si-Lin, *et al* 2658-2662  
Detection of 19 dark pigments illegally added in *Mumu Fructus* by ultra high performance liquid  
chromatography-tandem mass spectrometry.....HU Qing, *et al* 2663-2670  
Determination of fenbutatin oxide residues in cucumbers and tomatoes by high performance liquid  
chromatography ..... LI Wen-Ting, *et al* 2671-2676  
Simultaneous determination of 26 kinds of plant growth regulator residues in fruits and vegetable by  
QuEChERS-high performance liquid chromatography-tandem mass spectrometry  
..... ZHANG Lu-Wen, *et al* 2677-2689  
Simultaneous determination of maltol, ethyl maltol, vanillin, methyl vanillin and ethyl vanillin in soya bean  
milk by high performance liquid chromatography ..... CHI Qiu-Chi, *et al* 2690-2695  
Comparative study on the determination of estradiol residue in aquatic products by high performance  
liquid chromatography-tandem mass spectrometry and gas chromatography-mass spectrometry  
..... ZHANG Lu-Wen, *et al* 2696-2703  
Determination of 21 kinds of lipid-lowering drugs in herbal products and dietary supplements by ultra  
performance liquid chromatography/ quadrupole-time-of-flight mass spectrometry ..... YU Hong, *et al* 2704-2709  
Isolation and identification of a new type of tadalafil analogue ..... FENG Rui, *et al* 2710-2714  
Determination of 16 kinds of amino acids in health foods by high performance liquid chromatography  
with pre-column derivatization..... SUN Jian, *et al* 2715-2719  
Simultaneous determination of 5 kinds of antivirus drug residues in animal-derived food by high  
performance liquid chromatography-quadrupole-time of flight mass spectrometry ..... WANG Ke, *et al* 2720-2726  
Simultaneous determination of 17 kinds of sulfonamides in honey by liquid chromatography-tandem  
mass spectrometry.....XU Hui, *et al* 2727-2734  
Determination of 1-bromohexadecane in liposoluble cosmetics ingredients ..... YU Jian, *et al* 2735-2739  
Identification methods of lactic acid bacteria in food test ..... JIANG Bo, *et al* 2740-2746  
Uncertainty evaluation of lactic acid bacteria count in milk power by proficiency testing  
..... YANG Yan, *et al* 2747-2750  
Uncertainty evaluation of chloramphenicol in milk by high performance liquid chromatography-tandem  
mass spectrometry ..... LI Jing, *et al* 2751-2757  
Proficiency testing results and analysis of quantitative detection of *Staphylococcus aureus* in food  
..... ZHONG Wei, *et al* 2758-2762

### Special Topic: Rapid detection of food technology and intelligent equipment

- Rapid determination of 3 kinds of ginsenosides in *Panax ginseng* by new C<sub>18</sub> core-shell column  
..... YUE Huan-Xin, *et al* 2763-2769  
Research and evaluation on the ready-to-use culture medium in food detection..... GAO Fei, *et al* 2770-2774

Field application and feasibility of genetically modified dipstick .....	HE Jing, <i>et al</i>	2775-2780
Uncertainty of determination of plumbum in purified water by graphite furnace atomic absorption spectrophotometry.....	GONG Chun, <i>et al</i>	2781-2784
Uncertainty evaluation for determination of sodium chloride in squid shreds by direct precipitation titering method.....	YAN Zhuo-Yan	2785-2789
Simultaneous determination of 6 kinds of industrial dyes in food using QuEChERS sample preparation and high performance liquid chromatography-tandem mass spectrometry.....	ZHANG Yan, <i>et al</i>	2790-2797
Rapid detection of heavy metals in instant noodles by microwave digestion- inductively coupled plasma-mass spectrometry.....	WANG Shao-Qing, <i>et al</i>	2798-2802

### Food Analysis and Detection

Review on the source and detection technology of foreign bodies in food.....	JIN Xin-Xin, <i>et al</i>	2803-2808
Research progress on detection and inhibition methods of acrylamide in Chinese traditional medicines and foods .....	LI Ya-Li, <i>et al</i>	2809-2814
Research progress on prion diseases and the safety of meat products .....	XUE Chao-Bo, <i>et al</i>	2815-2820
Research progress of flavonoids in edible fungi.....	GONG Xue, <i>et al</i>	2821-2827
Detection of edible alcohol and industrial alcohol by spectral technique .....	YAN Feng, <i>et al</i>	2828-2834
Preparation process of yacon functional beverage .....	GAO Hui, <i>et al</i>	2835-2839
Analysis for bacterial flora structure of frozen Antarctic krill <i>Euphausia superba</i> by high-throughput sequencing technique .....	JIANG Yan-Hua, <i>et al</i>	2840-2845
Determination of synthetic antioxidants in fish oil soft capsules by ultra performance liquid chromatography-tandem mass spectrometry.....	XIE Qiang-Sheng, <i>et al</i>	2846-2851
Determination of ten chlorinated phenols and their salts in aquatic products by gas chromatography-mass spectrometry.....	FU Chang-Yu, <i>et al</i>	2852-2859
Determination of anthranilic diamide pesticides in vegetable oil by ultra performance liquid chromatography-tandem mass spectrometry.....	ZHANG Yun, <i>et al</i>	2860-2866
Analysis of nutritional component in 10 kinds of sea cucumbers.....	ZHAO Ling, <i>et al</i>	2867-2870
Study on the determination of semicarbazide in flour products and transformation law between azodicarbazide and semicarbazide.....	YAO Jing, <i>et al</i>	2873-2877
Determination of 9 kinds of alkene compounds in food paper package by headspace-gas chromatography-mass spectrometry.....	HE Min-Heng, <i>et al</i>	2878-2885
Determination of lipid degradation products in infant rice flour by headspace-gas chromatography-mass spectrometry.....	CHEN Shu-Dong, <i>et al</i>	2886-2894
Determination of special spoilage organisms in bulk sauced duck products.....	XIE Ping, <i>et al</i>	2895-2903
Determination of dimethyl yellow in bean products by high performance liquid chromatography-tandem mass spectrometry.....	DING An-Bang, <i>et al</i>	2904-2908
Processes of producing xylose by corncob.....	XU Guo-Hui, <i>et al</i>	2909-2913
Stability of <i>Cordyceps militaris</i> functional beverage .....	ZHU Zhen-Yuan, <i>et al</i>	2914-2919
Evaluation of 4 kinds of DNA extraction methods for beef jerky.....	SHI Pan-Pan, <i>et al</i>	2920-2925
Determination of 8 kinds of pesticide residues in vegetables by gas chromatography-tandem mass spectrometry .....	PAN Hu, <i>et al</i>	2926-2930
Determination of formaldehyde in aquatic products by high performance liquid chromatography with precolumn derivatization.....	TANG Sui-Ping	2931-2936
Isolation and identification of <i>Salmonella</i> and serotype in food ability verification....	CHEN Yu-Xin, <i>et al</i>	2937-2941
Effects of soy beverage supplementation on the microstructure, functional and texture properties of Mozzarella cheese.....	ZHAO Ping, <i>et al</i>	2942-2950
Separation and identification of <i>Salmonella</i> in raw pork.....	CHAI Yun-Lei, <i>et al</i>	2951-2955
Determination of 15 phthalate acid ester in medicinal liquor by dispersive solid phase extraction-gas chromatography-mass spectrometry .....	XU Rong-Rong, <i>et al</i>	2956-2962
Uncertainty analysis of plumbum determination for homemade positive pork by graphite furnace atomic absorption spectrometry .....	CHEN Xiao, <i>et al</i>	2963-2967

### Food Safety Supervision and Management

Current measures for food production supervision in China .....	YANG Xiao-Yu, <i>et al</i>	2968-2972
Application of big data technology in the quality and safety management innovation system of animal-derived food products .....	TAN Ye-Ping, <i>et al</i>	2973-2981
Actualities and countermeasures research of exported shrimp in Zhanjiang.....	ZHAO Hai-Jun, <i>et al</i>	2982-2989
Surveillance, prevention and control progress of microbial foodborne diseases at home and abroad .....	BAO Li-Juan	2990-2994
Analysis on the detection results of pigments in catering food of Guizhou province in 2012~2015 .....	YANG Juan-Yan, <i>et al</i>	2995-2999
Heavy metals content and edible safety evaluation of vegetables in Yantai market .....	DONG Feng-Guang, <i>et al</i>	3000-3005
Investigation of sulfur dioxide residue in pickles in Huarong county.....	ZHANG Yu-Mei, <i>et al</i>	3006-3009
Instruction to Authors.....		3010-3011



# 上海市食品药品检验所

上海市食品药品检验所是上海市食品药品监督管理局下属的技术支撑机构，成立于1953年。2005年通过CMA和CNAS相关资质认定与认可，开始正式承接食品检验业务。2011年10月，上海市食品药品检验所成为卫生部首批公布的食品复检机构之一。现食品检测方面主要承接20多个产品大类的食品委托检验、政府部门监督抽验与风险监测任务等。

网址：<http://www.sifdc.org.cn>  
 药品/化妆品业务咨询：021-50798159；  
 食品/保健食品咨询电话：021-50798157。



## 工作荣誉

## 工作报告



## 获得资质



## 实验室现场

