



ISSN 1004-8685
CN 41-1192/R

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

2016年6月 第26卷 第11期

Jun.2016 Vol.26 No.11

国家卫生和计划生育委员会主管
中华预防医学会主办

CHINESE
JOURNAL OF HEALTH
LABORATORY TECHNOLOGY

CJ
HLT

中国科技论文统计源期刊(中国科技核心期刊)

RCCSE 中国核心学术期刊

中国生物医学源期刊

美国化学文摘(CA)源期刊

中国学术期刊综合评价数据库源期刊

11

2016

ISSN 1004-8685



9 771004 868163

中华预防医学会系列杂志
SERIAL JOURNAL OF CHINESE PREVENTIVE MEDICINE ASSOCIATION

中国卫生检验杂志

ZHONGGUO WEISHENG JIANYAN ZAZHI

半月刊 1991年创刊 第26卷 第11期 2016年6月10日出版

主管

中华人民共和国国家卫生和计划生育委员会
100044,北京市西城区西直门外南路1号

主办

中华预防医学会
100021,北京市朝阳区劲松东口华泰饭店

社长总编

张绍武

副社长

张甜 姜友珍

副总编

郁庆福 李桂英 张克荣

编辑部主任

杨锋

编辑

中国卫生检验杂志编委会

出版

中国卫生检验杂志社
450003 郑州市经一路12号2288信箱

编辑部电话

0371-65978342
0371-65968289(传真)

广告部电话

0371-65998851
15538110112

出版日期

2016年6月10日

发行

国内发行:北京市邮政局
邮发代号:80-152
国外发行:中国国际图书贸易总公司
(北京399信箱)
国外发行代号:M5752

中国标准连续出版物号

ISSN 1004-8685
CN 41-1192/R

广告经营许可证号

4100004000124

2016年版权归中国卫生检验杂志社所有

定价

每期21.50元

目次

论著

- 磁分散固相萃取-气相色谱法测定水中8种氨基甲酸酯类农药
..... 张蕴,吴香伦,汪允刚,等 (1521)
- 液相色谱-串联质谱法测定月饼中的8种真菌毒素
..... 何春梅,李蓉,王勇,等 (1524)
- 2种培养基对临床粪便标本中艰难梭菌分离培养的比较研究
..... 韦凌娅,金慧,沈林海,等 (1529)
- 9例侵华日军鼠疫细菌战幸存者F1抗体的检测与分析
..... 陈秀英,雷永良,丛迎,等 (1532)

化学测定方法

- 分散固相萃取-高效液相色谱-串联质谱法同时测定尿中的四氢大麻
酚和四氢大麻酸 陈琦君,朱波,陈为升,等 (1535)
- 淋洗液在线发生-离子色谱法测定生活饮用水中的12种无机阴离子
..... 刘焯,王硕,张向明,等 (1539)
- 基于PRiME-通过型固相萃取净化模式快速检测豆芽中4种植物生长
调节剂 李小平,王立,潘胜东 (1542)
- 气相色谱法测定椰汁饮料中椰醛 佟世生,聂鲲,周相娟 (1546)
- 稀释硝酸微波消解辅助分析土壤中的5种元素
..... 陈燕,聂继华,郑双来 (1548)
- 高效液相色谱法测定化妆品中15种防晒剂
..... 谭菊英,何虹,黄慧 (1552)

本刊编委 (排名按笔画排列)

丁家华 仓公敖 方赤光 王哲
 王大宁 王志玉 王京宇 王凯娟
 王栩东 毋福海 冯晓燕 叶能权
 毕永毅 刘秀梅 刘玉龙 刘运德
 刘殿武 吕玉民 吕昌银 祁建城
 任一平 孙长颢 孙成均 许春向
 陈守建 何建国 何浙生 何晓青
 李蓉 李磊 李晓虹 宋宏彬
 吴清平 杨元 张曦 张贺秋
 邹学贤 姜庆五 赵卓 赵雁林
 高永清 贾珍珍 栗文元 凌文华
 栾燕 徐东群 曹佳 曹润武
 晁福寰 崔巍 常风启 黄国伟
 康辉 康维钧 韩玉霞 曾现伟
 窦志勇 溥萍 阚飒 廖百森
 裴少军 裴晓方 谭晓东 熊英
 潘慧 冀元棠

Editorial Board Member

DING Jia-hua, CANG Gong-ao, FANG Chi-guang, WANG Zhe, WANG Da-ning, WANG Zhi-yu, WANG Jing-yu, WANG Kai-juan, WANG Xu-dong, WU Fu-hai, FENG Xiao-yun, YE Neng-quan, BI Yong-yi, LIU Xiu-mei, LIU Yu-long, LIU Yun-de, LIU Dian-wu, LV Yu-min, LV Chang-yin, QI Jian-cheng, REN Yi-ping, SUN Chang-hao, SUN Cheng-jun, XU Chun-xiang, CHEN Shou-jian, HE Jian-guo, HE Zhe-sheng, HE Xiao-qing, LI Rong, LI Lei, LI Xiao-hong, SONG Hong-bin, WU Qing-ping, YANG Yuan, ZHANG Xi, ZHANG He-qiu, ZOU Xue-xian, JIANG Qing-wu, ZHAO Zhuo, ZHAO Yan-lin, GAO Yong-qing, JIA Zhen-zhen, LI Wen-yuan, LING Wen-hua, LUAN Yan, XU Dong-qun, CAO Jia, CAO Run-wu, CHAO Fu-huan, CUI Wei, CHANG Feng-qi, HUANG Guo-wei, KANG Hui, KANG Wei-jun, HAN Yu-xia, ZENG Xian-wei, DOU Zhi-yong, PU Ping, KAN Biao, LIAO Bai-sen, PEI Shao-jun, PEI Xiao-fang, TAN Xiao-dong, XIONG Ying, PAN Hui, JI Yuan-tang

网址

www.zgwsjy.cn

投稿电子信箱

wsjyzz@126.com

印刷

鑫宏源印刷包装有限责任公司

来稿咨询电话

010-84030401

离子色谱法同时检测工作场所空气中的 H₂SO₄、HCl
 高美佳,石嵘,蔡亦军,等 (1556)

高效液相色谱-电感耦合等离子体质谱法测定婴幼儿罐装辅助食品中的
 甲基汞 黄先亮,屠大伟,辜世伟,等 (1558)

高效液相色谱法测定冬枣中的糖精钠
 顾建华,陈倩倩,何鹏妍 (1561)

流动注射分析法同时检测水中挥发酚、氰化物、甲醛、六价铬和阴离子合
 成洗涤剂 张秀芝,刘柳,王慧彬,等 (1563)

固相萃取-液相色谱串联质谱法测定尿中4-硝基苯代谢物
 陈东洋,冯家力,张昊,等 (1566)

实验研究

异甘草酸镁在新生儿巨细胞病毒性肝炎中的疗效研究
 李璐,蔡晓红,陈伟富,等 (1570)

珠芽蓼果实粉的急性毒性和遗传毒性研究
 赵翠霞,范文今,牛璐,等 (1572)

食品与药品检验

超高效液相色谱-串联质谱法同时测定保健品中的14种黄酮类化合物
 洪月玲,秦姗姗,孙瑶,等 (1575)

气相色谱-质谱法测定茶叶中溴虫腈、啶虫脒、茚虫威、三氯杀螨醇及拟
 除虫菊酯等11种农药残留 李晔,郭蒙京,袁佗 (1579)

一起由快餐盒饭引发的产气荚膜梭菌食物中毒
 刘秀峰,陈东宛,吕金昌,等 (1582)

半消解-石墨炉原子吸收光谱法测定明胶空心胶囊中的铬
 刘晨晨,颜琳琦 (1585)

浦东新区 2012 年 - 2014 年市售生禽畜肉中沙门菌和单核细胞增生性李斯特菌污染情况分析	邵祥龙, 章溢峰, 傅灵菲, 等 (1588)
--	-------------------------

微生物检测方法

葡萄酒中酒香酵母实时荧光 PCR 检测方法的研究	刘夏, 王传现, 吴美琪, 等 (1591)
一种新型 B 群链球菌显色培养基的应用及效果评定	朱佩武, 张雪青, 吴庆, 等 (1594)
新疆阿克苏地区适龄儿童免疫抗体水平检测结果分析	王鲜芬, 董伟, 周红亮, 等 (1597)
检测外环境霍乱弧菌的方法探讨	谢晓红, 王洁, 蔡卫红, 等 (1600)
丙型肝炎病毒感染者血清铁调素 Hepcidin 浓度与 HCV RNA 病毒载量的相关性分析	彭明喜, 游春华, 王峰 (1602)
食品微生物检测能力验证结果分析	杨宝庆, 牛桓彩 (1604)

临床检验

结核感染 T 细胞斑点实验在肺结核中的临床应用研究	应晓, 王振华, 吴惠芬 (1607)
肝素结合蛋白等炎性因子在脓毒症患者早期诊断中的价值对比研究	陈琼娜, 李翊卫, 王晔恺, 等 (1610)
肝细胞生长因子与受体兔单克隆抗人 Met 蛋白在乳腺癌中的表达及临床意义	王奇军, 陈佩, 曾雪霞, 等 (1614)
随机尿白蛋白/肌酐和点时间尿蛋白/肌酐在子痫前期患者中的应用价值	孙素玉, 胡型忠, 沈旭娜 (1617)
年龄和性别对健康人群红细胞参数的影响	吴敏解, 胡良峰, 缪滢, 等 (1619)
血清脂蛋白 a、胱抑素 C 和尿酸的联合检测在高血压并发脑梗死早期诊断中的意义	李齐光, 梁雅茹, 朱高辉, 等 (1622)

分子诊断与基因检测

宁夏地区丙型肝炎基因型别研究	吴忠兰, 赵伟明, 曹敏, 等 (1625)
嘉定地区副溶血性弧菌溶血毒素基因特征的研究	陈伟鑫, 余玮 (1628)

监测分析

江西省儿童急性出血性结膜炎病原学监测研究	龚甜, 杨洋, 熊英, 等 (1630)
----------------------------	----------------------

- 郑州市狂犬疫苗接种人群免疫效果分析 李幸乐,吕新军,潘静静,等 (1632)
- 2009年-2015年鄂尔多斯市流感监测结果分析 徐萌杰,祁美荣,李炜,等 (1635)
- 2009年-2015年镇海区暗娼人群哨点监测结果分析 丁坚强,杨庆伟,张亚芬,等 (1640)

调查报告

- 杭州地区市售茶叶中拟除虫菊酯类农药残留的调查与分析 任韧,王姝婷,何华丽,等 (1645)
- 桐乡市成人麻疹抗体水平调查分析 严卓琳,王春梅,许皓,等 (1648)
- HBsAg和抗-HBs同时阳性的慢性乙型肝炎患者随访分析 朱冬林,陈文思,陈焕鹏,等 (1650)
- 职业接触二甲基甲酰胺人群体检结果分析 孙菊华,杨志强,袁华平,等 (1653)

细菌耐药性研究

- 2011年-2013年杭州地区致泻性大肠埃希菌的流行特征及耐药性分析 周芳美,陈晓,余斐,等 (1655)
- ICU产ESBLs大肠埃希菌与肺炎克雷伯菌感染的分布及耐药性分析 吴连根,刘旗明 (1658)
- 老年冠心病呼吸道感染患者感染病原菌耐药检测 张建东,张凤霞,马增光 (1661)

教学与实验室管理

- 5S现场管理在县级疾病预防控制中心实验室的应用 朱文进,王辉,施曲文,等 (1663)

经验交流

- 血清透明质酸、Ⅲ型前胶原、Ⅳ型胶原和层粘连蛋白检测对肝病的诊断价值
..... 童叶华,叶振斌,曲春生,等 (1666)
- 结核抗体检测对儿童结核患者的临床意义 徐晓红 (1667)
- 复方消毒剂中葡萄糖酸氯己定含量测定方法比较 郭亚萍,边方平,王丹丹,等 (1669)

短篇报道

- 蜡样芽胞杆菌引起血流感染1例 李宏,谷吉凤,郝桐,等 (1671)

CHINESE JOURNAL OF HEALTH LABORATORY TECHNOLOGY

Semimonthly Established in 1991, Volume 26 Number 11 June 10, 2016

Managed by

National Health and Family Planning Commission
of the People's Republic of China
No. 1, Xizhimen Wainan Road, Xicheng District, Beijing, 100044

Sponsored by

Chinese Preventive Medicine Association
Hua Thai Hotel, East Exit of Jinsong Road, Chaoyang District, Bei-
jing, 100021

Editor in Chief

ZHANG Shao - wu

Deputy Chairman

ZHANG Tian, JIANG You - zhen

Associate Editor in Chief

YU Qing - fu, LI Gui - ying, ZHANG Ke - rong

Director of Editorial Department

YANG Feng

Edited by

Editorial Board of Chinese Journal of Health Labo-
ratory Technology

Published by

Editorial Department of Chinese Journal of Health
Laboratory Technology
Mailbox 2288, No. 12, Jingyi Road, Zhengzhou, 450003

Editorial office telephone

0371 - 65978342
0371 - 65968289 (Fax)

Advertising department telephone

0371 - 65998851
15538110112

Publication Date

June 10, 2016

Domestic Distributor

Beijing Post Bureau
Code: 80 - 152

Overseas Distributor

China International Book Trading Corporation
(P. O. Box 399, Beijing, China)
Code: M5752

Website

www. zgwsjy. cn

E - mail

wsjyzz@126. com

Standard Series Number

ISSN 1004 - 8685
CN 41 - 1192/R

Advertising Management License

4100004000124

Copyright 2016 by Editorial Department of
Chinese Journal of Health Laboratory Technology

Price

RMB ¥21. 50

CONTENTS IN BRIEF

Original Articles

Determination of 8 carbamate pesticides in water with magnetic dispersive sol-
id - phase extraction combined with gas chromatography

..... ZHANG Yun, WU Xiang - lun, WANG You - gang, *et al.* (1521)

Determination of 8 mycotoxins in mooncake by liquid chromatography - ten-
dem mass spectrometry

..... HE Chun - mei, LI Rong, WANG Yong, *et al.* (1524)

Comparative study of two media for the isolation and culture of *Clostridium dif-
ficile* from faecal specimens

..... WEI Ling - ya, JIN Hui, SHEN Lin - hai, *et al.* (1529)

Detection and analysis of F1 antibody in 9 survivors from the germ warfare
launched by the Japanese invaders

..... CHEN Xiu - ying, LEI Yong - liang, CONG Ying, *et al.* (1532)

Chemical Detection Method

Simultaneous determination of tetrahydrocannabinol and tetrahydro - canna-
binolic acid in urine by liquid chromatography coupled with tandem mass
spectrometry after dispersive solid - phase extraction

..... CHEN Qi - jun, ZHU Bo, CHEN Wei - sheng, *et al.* (1535)

Detection of 12 inorganic anions in drinking water using ion chromatography
with on - line eluent generator

..... LIU Ye, WANG Shuo, ZHANG Xiang - ming, *et al.* (1539)

Rapid detection of 4 plant growth regulators in bean sprout samples based on
PRiME pass - through solid - phase extraction in clean - up mode

..... LI Xiao - ping, WANG Li, PAN Sheng - dong (1542)

Determination of nonanolactone in coconut milk by gas chromatography	TONG Shi - sheng, NIE Kun, ZHOU Xiang - juan . (1546)
Assisted analysis capacity of diluted nitric acid with microwave - digestion for the 5 kinds of elements in soil	CHEN Yan, NIE Ji - hua, ZHENG Shuang - lai (1548)
Determination of 15 UV filters in cosmetics by high - performance liquid chromatography	TAN Ju - ying, HE Hong, HUANG Hui (1552)
Simultaneous determination of H₂SO₄ and HCl in workplace air by ion chromatography	GAO Mei - jia, SHI Rong, CAI Yi - jun, <i>et al</i> (1556)
Determination of methylmercury in canned complementary food for infants and young children by high - performance liquid chromatography - inductively coupled plasma mass spectrometry	HUANG Xian - liang, TU Da - wei, GU Shi - wei, <i>et al</i> (1558)
Determination of sodium saccharin in jujube with high - performance liquid chromatographic	GU Jian - hua, CHEN Qian - qian, HE Peng - yan (1561)
Simultaneous detection of volatile phenols, cyanide, hexavalent chromium, formaldehyde and anion synthetic detergent in water by flow injection analysis	ZHANG Xiu - zhi, LIU Liu, WANG Hui - bin, <i>et al</i> (1563)
Determination of the metabolites of 4 - nitrobenzene in urine using solid - phase extraction coupled with liquid chromatography tandem mass spectrometry	CHEN Dong - yang, FENG Jia - li, ZHANG Hao, <i>et al</i> (1566)
Experimental Study	
Effects research on magnesium isoglycyrrhizinate in the treatment of infant cytomegalovirus hepatitis	LI Lu, CAI Xiao - hong, CHEN Wei - fu, <i>et al</i> (1570)
Research on acute toxicity and genetic toxicity of polygonum viviparum fruit powder	ZHAO Cui - xia, FAN Wen - jin, NIU Lu, <i>et al</i> (1572)
Food and Drug Inspection	
Simultaneous determination of 14 flavonoids in health care products by ultra - performance liquid chromatography - tandem mass spectrometry	HONG Yue - ling, QIN Shan - shan, SUN Yao, <i>et al</i> (1575)
Determination of 11 pesticide residues, such as chlorfenapyr, acetamiprid, indoxacarb, dicofol and synthetic pyrethroids in tea by gas chromatography - mass spectrometry	LI Ye, GUO Meng - jing, YUAN Tuo (1579)
A food poisoning with <i>Clostridium perfringens</i> caused by box lunch	LIU Xiu - feng, CHEN Dong - wan, LV Jin - chang, <i>et al</i> (1582)
Determination of chromium in vacant gelatin capsules by incomplete digestion - graphite furnace atomic absorption spectrometry	LIU Chen - chen, YAN Lin - qi (1585)

Analysis of contamination levels of *Salmonella* and *Listeria monocytogenes* in raw meat in Pudong area from 2012 to 2014 ...
..... SHAO Xiang-long, ZHANG Yi-feng, FU Ling-fei, *et al* (1588)

Microbe Detection Method

Research on the detection of *Brettanomyces bruxellensis* in wines with real-time PCR
..... LIU Xia, WANG Chuan-xian, WU Mei-qi, *et al* (1591)

The application and performance evaluation of a novel color culture medium for group B *Streptococcus*
..... ZHU Pei-wu, ZHANG Xue-qing, WU Qing, *et al* (1594)

Analysis of immune antibody levels test results in preschool children in Aksu prefecture of Xinjiang
..... WANG Xian-fen, DONG Wei, ZHOU Hong-liang, *et al* (1597)

Exploration on the detection methods of *Vibrio cholerae* from external environmental
..... XIE Xiao-hong, WANG Jie, CAI Wei-hong, *et al* (1600)

Analysis of the correlation between serum Hepcidin concentration and HCV RNA viral load in patients with hepatitis C virus
infection PENG Ming-xi, YOU Chun-hua, WANG Feng (1602)

Analysis of the capability verification results of microorganism detection on food
..... YANG Bao-qing, NIU Huan-cai (1604)

Clinical Laboratory Test

The clinical applications of T SPOT.TB in pulmonary tuberculosis patients
..... YING Xiao, WANG Zhen-hua, WU Hui-fen (1607)

Comparative research of the diagnostic value of inflame factors such as heparin-binding protein in patients with sepsis
..... CHEN Qiong-na, LI Yi-wei, WANG Ye-kai, *et al* (1610)

Expression of hepatocyte growth factor and CMET in human breast cancer and their clinical significance
..... WANG Qi-jun, CHEN Pei, ZENG Xue-xia, *et al* (1614)

Clinical application of A/Cr in random spot urine samples and P/Cr in spot urine samples for preeclampsia
..... SUN Su-yu, HU Xing-zhong, SHEN Xu-na (1617)

Influence of age and gender on the red cell parameters in healthy people
..... WU Min-jie, HU Liang-feng, MIAO Ying, *et al* (1619)

Clinical significance of combined detection of serum lipoprotein(a), cystatin-C and uric acid in the early diagnosis of hyper-
tension complicated with cerebral infarction LI Qi-guang, LIANG Ya-ru, ZHU Gao-hui, *et al* (1622)

Molecular Diagnosis and Gene Detection

Study on the genotypes of hepatitis C in Ningxia WU Zhong-lan, ZHAO Wei-ming, CAO Min, *et al* (1625)

Research on the hemolysin gene characteristics of *Vibrio parahaemolyticus* in JIading district
..... CHEN Wei - xin, YU Wei (1628)

Monitoring and Analysis

Pathogenic surveillance and study on children epidemic hemorrhagic conjunctivitis in Jiangxi
..... GONG Tian, YANG Yang, XIONG Ying, *et al* (1630)

Analysis of immune effects in rabies vaccination people in Zhengzhou
..... LI Xing - le, LV Xin - jun, PAN Jing - jing, *et al* (1632)

Analysis of the surveillance results on influenza in Ordos during 2009 - 2015
..... XU Meng - jie, QI Mei - rong, LI Wei, *et al* (1635)

Analysis of monitoring results among female sex workers during 2009 - 2015 in Zhenhai district
..... DING Jian - qiang, YANG Qing - wei, ZHANG Ya - fen, *et al* (1640)

Investigation Report

Investigation and analysis on the pyrethroid pesticide residues in tea from Hangzhou
..... REN Ren, WANG Shu - ting, HE Hua - li, *et al* (1645)

Investigation and analysis of measles antibody levels in adults of Tongxiang
..... YAN Zhuo - lin, WANG Chun - mei, XU Hao, *et al* (1648)

A follow - up study and analysis in patients with chronic hepatitis B and the coexistence of HBsAg and HBs
..... ZHU Dong - lin, CHEN Wen - si, CHEN Huan - peng, *et al* (1650)

Analysis of the physical examination results of the occupational exposed to dimethylformamide
..... SUN Ju - hua, YANG Zhi - qiang, YUAN Hua - ping, *et al* (1653)

Bacterial Resistance Research

Characterization and antimicrobial resistance analysis of diarrheagenic *Escherichia coli* in Hangzhou area from 2011 to 2013
..... ZHOU Fang - mei, CHEN Xiao, YU Fei, *et al* (1655)

Distribution and drug resistance of ICU producing *Escherichia coli* and *Klebsiella pneumoniae* infection
..... WU Lian - gen, LIU Qi - ming (1658)

Detection of the pathogen and its drug resistance in elderly patients with coronary heart disease and respiratory infection ...
..... ZHANG Jian - dong, ZHANG Feng - xia, MA Zeng - guang (1661)

全程监测，安全精准

精创记录仪为疫苗储运保驾护航

20年医药食品冷链行业监测经验 全球市场累计超过500万支记录仪的销售规模



- 公司参与起草《冷链温度记录仪》、《炉温跟踪记录仪》等多项国家标准，产品先进可靠
- 严格的生产管理和质量管理体系，保证产品高精度、高可靠，并且极低的故障率
- 公司拥有强大的研发实力，承担了国家级火炬计划项目3项，拥有授权专利80余项，国家级计算机软件著作权27项
- 多年的大企业配套经验。海尔、澳柯玛、松下等公司长年合作伙伴
- 公司记录仪产品符合国家GSP标准和WHO（世界卫生组织）标准



精创官方微信