

# 酿酒科技

Liquor-Making Science & Technology



月刊

贵州省轻工业科学研究所  
中国酿酒信息中心

主办

- 国家期刊奖百种重点期刊
- 全国中文核心期刊
- 中国科技核心期刊
- 《CAJ-CD规范》执行优秀期刊



ISSN 1001-9286

8  
2013  
(总第230期)



湖北 稻花香 集团  
HUBEI DAOHUAXIANG GROUP



岁月酝酿

历久弥香

承经典，再超越

最是人生丰收时

谁与争锋

举杯，稻花香！



中国大型工业企业 中国驰名商标 中华老字号

万方数据

第三届国家期刊奖百种重点期刊  
全国中文核心期刊 中国科技核心期刊

# 酿酒科技

(月刊) NIANGJIU KEJI

Liquor-making Science & Technology

2013年第8期

(总第230期)

2013年8月18日出版

编委会顾问:沈怡方 高景炎 高月明 季克良 王秋芳 袁仁国 蔡友平  
编委会主任:肖冬光

编委会副主任:黄平 张肖克

编委会委员:(以姓氏汉语拼音为序)

曹健君	程宏连	杜小威	黄 平	黄永光	胡建祥	贾翹彦
蒋红星	蒋英丽	姜 萍	李 华	赖登輝	刘自力	刘中利
吕云怀	普必恩	邱树毅	沈才洪	石 峰	王瑞明	王仕佐
王秀道	吴建峰	吴天祥	肖冬光	谢永文	谢玉球	熊小毛
徐 岩	徐占成	杨大金	俞学锋	张德芹	张 良	张肖克
张智斌	邹海晏	钟方达	周新虎			

主编:黄平

副主编:张肖克 姜萍

责任编辑:黄永光 杨国华

英文编辑:乐扬

创刊日期:1980年3月

主管单位:贵州省经济和信息化委员会

主办单位:贵州省轻工业科学研究所

中国酿酒信息中心

协办单位:贵州茅台酒股份有限公司

泸州老窖股份有限公司

安琪酵母股份有限公司

陕西省太白酒业有限责任公司

江苏洋河酒厂股份有限公司

云南玉林泉酒业有限公司

贵州茅台集团习酒有限责任公司

湖北枝江酒业股份有限公司

四川省古蔺郎酒厂有限公司

湖北稻花香酒业股份有限公司

湖北白云边酒业股份有限公司

重庆诗仙太白酒业(集团)有限公司

江苏双沟酒业股份有限公司

贵州董酒股份有限公司

金沙窖酒酒业有限公司

山西杏花村汾酒厂股份有限公司

编辑出版:《酿酒科技》编辑部

地址:中国·贵州·贵阳市沙冲中路58号(550007)

电话:0851-5796163 5762572 5772798

传真:0851-5776394

http://www.LMST.cn //NJKJ.chinajournal.net.cn

中文网址:酿酒科技.cn 酿酒科技.com 中国酿酒.cn

通用网址:中国酿酒 酿酒科技

E-mail:NJKJ@263.net

NJKJ@chinajournal.net.cn

广告经营:520100101—0100

印 刷:贵阳精彩数字印刷有限公司

发行范围:国内外公开发行

国内发行:贵阳市邮政局 国内代号:66—23

国外发行:中国国际图书贸易公司(北京399信箱)

国外代号:BM4236

国内订阅:全国各地邮局(所)

刊 号: ISSN 1001—9286

CN 52—1051/T S

定 价: 国内¥18.00 国外\$18.00

# 目 次

## ◀专题报告▶

第二届中国白酒领袖峰会隆重召开 ... 中国酒业协会白酒分会(1)  
强势媒体语境下中国白酒产业发展对策研究 ..... 杨柳(4)

## ◀研究报告▶

一株高产糖化酶菌株的筛选与鉴定

..... 龙茜萍,王晓丹,谭静,等5人(7)

中国白酒不同香型理化指标对比分析 ..... 王旭亮(10)

火龙果果酒酵母的筛选 ..... 谢国芳,张银,张兴无,周俊良(13)

菌落原位杂交法筛选特定菌种的方法初探

..... 刘超兰,王海英,李文芳,等6人(15)

新型桂花米酒的酿造工艺研究

..... 边名鸿,叶光斌,陈欲云,等6人(19)

酯化红曲的筛选和酯化酶酶学性质研究

..... 胡沂淮,贾亚伟,戴源,等7人(23)

酵母菌株对桑椹酒挥发性香气成分的影响研究

..... 孙玉霞,史红梅,蒋锡龙,等6人(28)

高温瞬时灭菌技术对啤酒质量影响的研究

..... 王嵩,张乃斌,张文杰,周广田(33)

发酵枣酒中的甲醇和杂醇油控制 ..... 张丽芝(36)

黄酒中氨基甲酸乙酯和尿素的处理方法与工艺条件

..... 林文浩,林峰,周建弟(40)

清香型白酒中多元醇含量的分析研究

..... 韩兴林,王勇,魏金旺,等6人(44)

## ◀生产实践▶

清香型白酒生产中白地霉的分离鉴定

..... 胡建华,周森,郝文军,等7人(47)

传统诱变与基因组重排技术相结合选育耐高温

酿酒酵母菌株 ..... 董健,李月强,陈叶福,等5人(50)

特香型年份酒香味物质初探

..... 严伟,吴生文,刘建文,等7人(54)

低气水对大曲的影响 ..... 罗玲,沈才洪,沈才萍,等7人(58)

以青稞为原料酿制清酒的生产试验 ..... 喇录忠,李善文(62)

高效复合酶制剂的应用研究

..... 许绿英,张华玲,刘绪,等10人(65)

## ◀白酒机械化▶

基于无线射频技术的高档酒防伪识别系统

..... 马光喜,俞欣颖,马力(69)



## ◀新产品·新技术▶

罗汉果茶汁发酵酒工艺条件研究

..... 黄瑶,谢培兰,黄泽艳,等6人(72)

含Monacolin K广东客家娘酒的酿造

..... 赵文红,梁彬霞,朱豪,等5人(75)

青梅果酒整果发酵工艺的研究

..... 郭波,梁思宇,陈楚坚,吴安杏(79)

## ◀综述报告▶

葡萄酒原产地鉴别研究进展 ..... 田海燕,田建文,宋长冰(82)

细胞固定化及其在酿酒工业中的应用研究进展

..... 刘芳,于建生(85)

啤酒废酵母生产酵母浸粉及其应用的研究进展

..... 耿鹏飞,蒋世云,傅凤鸣(88)

### ◀分析·检测▶

- HPLC-FLD 检测啤酒中 4-乙烯基愈创木酚  
方法的建立及应用 ..... 王培杰,赵彩云,王德良(93)  
山楂红酒香气成分的 GC/MS 分析 ..... 高 哲,潘玉雷,王贞强,等 8 人(95)  
白酒中铅的石墨炉原子吸收法测定方法研究 ..... 张志刚,向双全(98)  
不同品种酿酒葡萄中 16 种矿物元素的 TXRF 法测定研究 ..... 于惠春,陈 伟,邬旭然(103)

### ◀酒文化▶

- 山东景芝酒业成功的文化视角 ..... 张 梅(106)  
◀酒业经纬▶  
香槟地理标志诉讼的中外比较 ..... 杨 永(109)  
“中国白酒金三角”产业集群创新环境建设研究 ..... 黄元斌(113)  
地理标志产品绍兴黄酒与非地理标志黄酒感官评价分析的研究 ..... 周牡艳,李博斌,唐红光,等 7 人(116)

### ◀企业管理▶

- 酒类产品质量安全的行业协会自我规制 ..... 凌 满,严 煜,廖国强(119)  
白酒生产自动控制管理系统应用探讨 ..... 王兆恩,赵 彬(122)

### ◀饮酒与健康▶

- 梅兰春芝麻香酒的健康因子分析 ..... 吴婷婷,朱双良,孙惜时,等 5 人(125)  
◀市场动态▶

- 新华锦 2.3 亿买下即墨黄酒 ..... (18)  
2012 年中国酿酒行业十强出炉 ..... (22)  
枝江酒连续五年在区域白酒质检中夺魁 ..... (27)  
洋河股份蝉联“财富中国 500 强”排名跃升至 255 位 ..... (61)  
郎酒品牌价值 309.58 亿元 ..... (64)  
茅台品牌价值居食品饮料行业榜首 ..... (87)  
国酒茅台荣获 2013 年度全球卓越绩效奖 ..... (92)  
稻花香品牌价值为 268.56 亿元 ..... (130)

### ◀会议·消息▶

- 中国成为世界最大啤酒生产国 ..... (3)  
江西食协组团来白云边酒业考察交流 ..... (6)  
国内首家白酒价格评估机构即将落户泸州 ..... (6)  
金沙酒业集团推出四款酱香小酒 ..... (12)  
江苏省洋河酒厂股份有限公司荣获 2012 年度江苏省质量管理优秀奖 ..... (35)  
稻花香入围 2013 年中国酒业名酒典型酒 ..... (43)  
第六届中国管理科学大会在北京召开 ..... (53)  
“国酒茅台波尔多”号于 7 月 26 日首飞普吉 ..... (57)  
白云边集团首届职工文化节文艺汇演圆满成功 ..... (68)  
汾酒集团金家酒新品财富说明会举行 ..... (74)  
中国名酒精神与价值——名酒高峰论坛  
7 月 18 日在北京开启 ..... (102)  
贵阳国际啤酒节闭幕 ..... (105)  
茅台出新品“道和柔和酱香”白酒泰斗盛赞 ..... (112)  
2013 年中国酒业协会白酒分会国家级白酒评委年会纪要 ..... (131)

### ◀广 告▶

- 汪洋酒类专用炭 ..... (广 1)  
宜宾圆明园实业有限公司提供基酒 ..... (广 2)  
山东梁山良友生物工程有限公司大曲系列产品 ..... (广 3)  
山东梁山久源生物产品 ..... (广 4)  
成都醇中醇君明生物科技公司高产酒曲、酿酒设备等 ..... (广 5)  
桂林银荔酒业有限公司优质米香型基酒 ..... (广 6)  
四川中华美酒业有限公司基酒 ..... (广 7)  
南昌市田园食品科学研究所天然白酒风味剂 ..... (广 8)  
IQJ 乙型大曲压块机 ..... (广 9)  
山东杨湖酒业有限公司芝麻香原酒 ..... (广 10)

- 泰安市盛宏春酿酒设备厂最新专利酿酒设备 ..... (广 11)  
贵州龙黔威酒业有限公司提供优质酱香基酒 ..... (插 1)  
江苏赛威饮料机械 ..... (插 2)  
“绵爽王”调味酒 ..... (插 3)  
山东梁山徐曙生物工程有限公司系列大曲 ..... (插 4)  
商丘宇工大曲压块机 ..... (插 5)  
亿贝尔酿酒设备 ..... (插 6)  
河南丰达生物科技有限公司生物制品 ..... (插 7)  
酒用矿物澄清剂 中正包装机械灌装设备 ..... (插 8)  
“酒仙”牌酒曲 ..... (插 9)  
川艺大曲 ..... (插 10)  
冀州市耀华器械仪表厂计量器具 ..... (插 11)  
柏根牌超级过滤器 岳之冠酿酒设备 ..... (插 12)  
“笑仙”牌 Q303 纯种根霉曲 ..... (插 13)  
夏氏酿酒设备 ..... (插 14)  
旭日升香料 ..... (插 15)  
济南蓝光机电有限公司食品安全管控系统 ..... (插 16)  
女儿红酒业公司招聘 ..... (131)  
南京卓派酿酒有限公司代加工 国洪酒曲 ..... (132)  
四川省山野生物科技有限公司糖化酶 ..... (133)  
广元市酒类技术研究所不醉液 ..... (134)  
四川意文净化科技有限公司 ..... (135)  
酒窖曲房无线测温系统 ..... (136)  
雅大新法酿酒 ..... (137)  
山东中惠食品有限公司生物制品 ..... (138)  
山东省苍山县庭院经济研究所酿酒设备 ..... (139)  
大汉酿酒设备 ..... (140)  
四川省酿酒研究所 ..... (141)  
济南瑞丰生物工程有限公司生物制品 ..... (142)  
三虹牌封坛专用化纤布 ..... (143)  
钟山酒炭 ..... (144)

封面——稻花香·中国驰名商标

封二——安琪酵母浸出物 MP60

封三——大东牌白酒净化设备

封底——泸州老窖·特曲

彩一——科华酒水净化设备

彩二——天津宝炬净化设备

彩三——天津宝炬净化设备

彩四——成都锐达机电实业有限公司过滤设备

彩五——牧羊集团酿酒设备

彩六——武汉佳成生物制品有限公司生物制品

彩七——梅花山牌活性炭

彩八——习酒·窖藏 1988

彩九——典藏价值·青花郎

彩十——国密董酒

彩十一——金沙回沙酒·中国驰名商标

彩十二——汪洋酒类专用净水炭

中彩——国酒茅台

中彩二——宜宾叙府酒业调味酒和基酒

中彩三——四川酒类产品交易中心

中彩四——“徐坊村”大曲

中彩五——中国梦·梦之蓝

中彩六——傅潭酒业芝麻香基酒

中彩七——济南雪娜斯智能酒水设备

中彩八——贵州龙大曲酱香基酒\酱香大曲

后彩——港阳牌酒用香料辅料

后彩二——成都长城川兴酒厂基酒

后彩三——林海机械

后彩四——广州广富白酒自动化酿酒系统

后彩五——泰山泉酿酒设备

后彩六——意文酒水净化设备

后彩七——国五剑酒业酱香酒

后彩八——四川八大原酒企业

后彩九——北京旗硕公司制曲管控系统

后彩十——金酱酒业基酒

后彩十一——普瑞特酿酒成套设备

后彩十二——百奥福纯粮固态发酵产品

# CONTENTS

## ◀SPECIAL REPORTS▶

- Grand Opening of the 2nd China Liquor Leaders Summit Forum ..... **Liquor Branch of China Alcoholic Drinks Association(1)**  
How Chinese Liquor-making Industry Gets Along with Strong Media ..... **YANG Liu(4)**

## ◀RESEARCH REPORTS▶

- Screening and Identification of a High-yield Glucoamylase-producing Strain ..... **LONG Qianping et al(7)**  
Comparative Analysis of Physicochemical Indexes of Liquor of Different Flavoring Types ..... **WANG Xuliang(10)**  
Screening of a Yeast Strain for Pitaya Fruit Wine Production ..... **XIE Guofang et al(13)**  
Optimization of Colony In Situ Hybridization for Screening Specific Strains ..... **LIU Chaolan et al(15)**  
Research on the Production Process of Osmanthus Rice Wine ..... **BIAN Minghong et al(19)**  
Screening of a *Monascus* Strain with Strong Esterifying Capability and Study of Its Esterase Properties ..... **HU Yihuai et al(23)**  
Investigation on the Effects of the Fermentation by Different Yeast Strains on Volatile Flavoring Components of Mulberry Wine ..... **SUN Yuxia et al(28)**  
Effect of High Temperature Instant Sterilization on Beer Quality ..... **WANG Song et al(33)**  
Control of Methanol and Fusel Oil Content in the Fermenting Process of Jujube Wine ..... **ZHANG Lizhi(36)**  
Technical Conditions of Removing Ethyl Carbamate and Urea in Yellow Rice Wine ..... **LIN Wenhao et al(40)**  
Analysis of Polyhydric Alcohols in Qing-flavor Liquor ..... **HAN Xinglin et al(44)**

## ◀PRODUCTION PRACTICE▶

- Separation and Identification of *Geotrichum candidum* in the Production of Qing-flavor Liquor ..... **HU Jianhua et al(47)**  
Breading of Thermo-tolerant *Saccharomyces cerevisiae* Strains by Traditional Mutagenesis and Genome Shuffling ..... **DONG Jian et al(50)**  
Investigation on the Flavoring Components of Site-flavor Age Liquor ..... **YAN Wei et al(54)**  
Study on the Effects of Deuterium-depleted Water on Daqu ..... **LUO Ling et al(58)**

- Production Test of Barley as Raw Materials for Brewing Barley Qingjiu ..... **LA Luzhong et al(62)**  
Research on the Application of Strong-effect Composite Preparation of Enzyme and Microorganisms ..... **XU Luying et al(65)**

## ◀MECHANIZED PRODUCTION OF LIQUOR▶

- Anti-fake System for High-end Liquor Based on RFID Technology ..... **MA Guangxi et al(69)**

## ◀NEW TECHNOLOGY▶

- Study on the Technical Conditions of Mangosteen Tea Fermented Wine ..... **HUANG Yao et al(72)**  
The Production of Monacolin K-containing Hakka Wine ..... **ZHAO Wenhong et al(75)**

- Study on the Production of Green Plum Wine ..... **GUO Bo et al(79)**

## ◀SUMMARY REPORTS▶

- Research Progress in the Identification of the Producing Places of Grape Wine ..... **TIAN Haiyan et al(82)**  
Research Progress in Cell Immobilization and Its Application in Liquor-making ..... **LIU Fang et al(85)**  
Research Progress in Using Waste Beer Barm to Produce Yeast Extracting Powder and Its Application ..... **GENG Pengfei et al(88)**

## ◀ANALYSIS·DETERMINATION▶

- Determination of 4-vinylguaiacol in Beer by HPLC-FLD

- ..... **WANG Peijie et al(93)**  
GC/MS Analysis of Flavoring Components of Hawthorn Wine ..... **GAO Zhe et al(95)**  
Research on the Determination of Pb Content in Liquor by Graphite Furnace Atomic Absorption Spectrometry ..... **ZHANG Zhigang et al(98)**  
Study on the Determination of 16 Kinds of Mineral Elements in Different Varieties of Wine-making Grapes by Total Reflection X-ray Fluorescence with Constant Pressure Digestion ..... **YU Huichun et al(103)**

## ◀CULTURES OF ALCOHOLIC BEVERAGES▶

- Analysis of the Success of Jingzhi Liquor Industry Co.Ltd. from the Angle of Culture ..... **ZHANG Mei(106)**  
◀CROSS ON ENTERPRISES▶  
Comparison of Champagne Geographical Indications  
Lawsuits at Home and Abroad ..... **YANG Yong(109)**  
Research on the Construction of Innovative Environment for Industrial Cluster in Chinese Liquor-making Golden Triangle ..... **HUANG Yuanbin(113)**  
Sensory Evaluation of Shaoxing Yellow Rice Wine (Geographical Indication Product) and Other Yellow Rice Wine (Non-geographical Indication Product) ..... **ZHOU Muyan et al(116)**

## ◀ENTERPRISES MANAGEMENT▶

- Industry Association's Self-regulation towards the Quality and the Safety of Alcoholic Products ..... **LING Xiao et al(119)**  
Investigation on the Application of Automatic Control Management System for Liquor Production ..... **WANG Zhaoen et al(122)**

## ◀DRINKING AND HEALTH▶

- Analysis of Health Factors of Meilanchun Sesame-flavor Liquor ..... **WU Tingting et al(125)**

## ◀MARKET TRENDS▶

- Xinhuajing Bought Jimo Yellow Rice Wine at the Price of 0.23 Billion CNY ..... (18)  
Top Ten Wine-making Enterprises in China in 2012 Announced ... (22)  
Jinzhjiang Liquor Won the Championship in Regional Liquor Quality Testing for Five Consecutive Years ..... (27)  
The Ranking of Yanghe Distillery in Fortune China Top 500 Enterprises List Jumped to the 255th Place ..... (61)  
The Brand Value of Langjiu Is 30.958 Billion CNY ..... (64)  
The Brand Value of Maotai Ranks No.1 in Food & Beverage Industry ..... (87)  
Maotai Distillery Won 2013 Global Excellent Performance Award ..... (92)  
The Brand Value of Daohuaxiang Is 26.856 Billion CNY ..... (130)

## ◀CONFERENCES·NEWS▶

- China Has Become the Largest Beer-making Country in the World ..... (3)  
Experts from Jiangxi Food Association Made Survey in Baiyunbian Distillery ..... (6)  
The 1st Liquor Price Assessment Institute in China Will Be Founded in Luzhou ..... (6)  
Jinsha Liquor Industry Group Has Developed Four Kinds of Jiang-flavor Liquor Products ..... (12)  
Yanghe Distillery Won 2012 Jiangsu Excellent Quality Management Prize ..... (35)  
Daohuaxiang Qualified for 2013 Chinese Famous Liquor and Typical Liquor Products ..... (43)  
The 6th China Management Science Conference Held in Beijing ..... (53)  
The Flight of Maotai Bordeaux Will Take Its First Flight to Phuket on July. 26 ..... (57)  
The 1st Workers Cultural Festival of Baiyunbian Distillery Ended Successfully ..... (68)  
The Introduction Conference of Jinjia Liquor-New Product

of Fenjiu Group Was Held .....	(74)
Summit Forum on Spirits and Values of Chinese Famous Liquor Held in Beijing on July.18 .....	(102)
Guizhou International Beer Festival Ended .....	(105)
Experts Sang High Praise for the New Product of Maotai Distillery .....	(112)
Summary of 2013 Liquor Judges Annual Meeting of Liquor Branch of China Alcoholic Drinks Association .....	(131)

## ◀ADVERTISEMENTS▶

Wangyang Active Carbon for Alcoholic Beverages .....	(Ad1)
Basic Liquor Provided by Yibing Yuandingyuan Co.Ltd. ....	(Ad2)
Daqu Series Provided by Shandong Liangyou Bioengineering Co.Ltd. ....	(Ad3)
Liangshan Jiuyuan Biological Products .....	(Ad4)
High-yield Starter for Liquor etc. by Chunzhongchun Junming Biotech Engineering Co.Ltd. ....	(Ad5)
Guilin Silver Lai Liquor Industry Co. Quality Rice Flavor Base Wine .....	(Ad6)
Base Liquor by Zhonghuamei Liquor Industry Co.Ltd. ....	(Ad7)
Natural Liquor Flavoring Agent Provided by Nanchang Tianyuan Food Scientific Research Institute .....	(Ad8)
IQJ Type Daqu Briqueting Machine .....	(Ad9)
Sesame-flavor Base Liquor by Shandong Yanghu Liquor Industry Co.Ltd. ....	(Ad10)
New Liquor-making Facilities by Tai'an Shenghongchun Liquor-making Facility Factory .....	(Ad11)
Quality Jiang-flavour Basic Liquor Provided by Guizhoulong Qianwei Liquor Industry Co. Ltd. ....	(Insert 1)
Jiangsu Saiwei Brand Beverage Machinery .....	(Insert 2)
"Mianshuangwang" Brand Modifying Liquor .....	(Insert 3)
Series Daqu Starter by Liangshan Xushu Biology Co. Ltd. ....	(Insert 4)
Shangqiu Yugong Daqu Briquetting Machine .....	(Insert 5)
Yibeier Wine-making Apparatus .....	(Insert 6)
Natural Flavoring Liquid Provided by Fengda Biotech Co.Ltd. ....	(Insert 7)
Mineral Clarifying Agent for Alcoholic Beverages .....	(Insert 8)
Filling Facilities by Qinzhou Zhongzheng Co. Ltd. ....	(Insert 8)
Jiuxian Brand Daqu Starter .....	(Insert 9)
Chuanyi Daqu .....	(Insert 10)
Alcohol Meter Provided by Yaohua Instrument Factory .....	(Insert 11)
Baigen Brand Stainless Steel Ultra-Filter .....	(Insert 12)
Yueziguan Liquor-making Machinery .....	(Insert 12)
Quality Rhizopus Species Q303 .....	(Insert 13)
Xia's Wine-making Apparatus .....	(Insert 14)
Xurisheng Spices .....	(Insert 15)
Food Safety Controlling System of Jinan Langguang Mechanical and Electrical Equipment Co.Ltd. ....	(Insert 16)
Talents Wanted by Nverhong Co.Ltd. ....	(131)
Zuopai Liquor-making Co.Ltd. ....	(132)
Guohong Wine Yeast .....	(132)
Saccharifying Enzyme by Sichuan Shanye Biotechs Co.Ltd. ....	(133)
Sobering Liquid by Guangyuan Wine Products Technical Research Institute .....	(134)
Sichuan Yiwen Jinhua Scientific Technology Co.Ltd. ....	(135)
Wireless Thermoscope for Starter Room .....	(136)
Yada High-output Liquor-making Techniques .....	(137)
Bio-products by Shandong Zhonghui Food Co.Ltd. ....	(138)
Wine-making Equipments Provided by Changshan Courtyard Economy Research Institute .....	(139)
Dahan Equipment .....	(140)
Sichuan Institute of Wine-brewing Industries .....	(141)
Pit Mud Functional Bacteria Provided by Jinan Ruijing Bioengineering Co. ....	(142)
Sanhong Brand Special Chemical Fiber Cloth for Jars .....	(143)
Zhongshan Active Carbon .....	(144)
<b>Daohuaxiang Liquor .....</b>	<b>(Front Cover)</b>
<b>Angel Yeast Extract MP60 .....</b>	<b>(Inside Front Cover)</b>

<b>Dadong Brand Purifiers for Liquors .....</b>	<b>(Inside Back Cover)</b>
<b>Luzhou Laojiao Tequ Liuocr .....</b>	<b>(Back Cover)</b>
<b>Kehua Brand Filtration Equipments .....</b>	<b>(Colour P.1)</b>
<b>Tianjin Baoju Filtration Equipment .....</b>	<b>(Colour P.2)</b>
<b>Tianjin Baoju Filtration Equipment .....</b>	<b>(Colour P.3)</b>
<b>Chengdu Ruida Electromechanical Co. Filters .....</b>	<b>(Colour P.4)</b>
<b>Wine-making Apparatus by Muyang Group .....</b>	<b>(Colour P.5)</b>
<b>Biological Product by Jiacheng Bio-product Co.Ltd. ....</b>	<b>(Colour P.6)</b>
<b>MeihuashanTM Active Carbon .....</b>	<b>(Colour P.7)</b>
<b>Xiji·Jiaocang 1988 .....</b>	<b>(Colour P.8)</b>
<b>Qinghualang Liquor .....</b>	<b>(Colour P.9)</b>
<b>Dongjiu Liquor in China .....</b>	<b>(Colour P.10)</b>
<b>Jinsha Huisha Liquor .....</b>	<b>(Colour P.11)</b>
<b>Wangyang Active Carbon .....</b>	<b>(Colour P.12)</b>
<b>National Liquor Maotai .....</b>	<b>(Mid Colour P.1)</b>
<b>Yibin Xufu Liquor .....</b>	<b>(Mid Colour P.2)</b>
<b>Wine Products Trade Center of Sichuan Province .....</b>	<b>(Mid Colour P.3)</b>
<b>"Xufangcun" Daqu .....</b>	<b>(Mid Colour P.4)</b>
<b>China Dream·Mengzhilan .....</b>	<b>(Mid Colour P.5)</b>
<b>Sesame-flavor Base Liquor by Futan Liquor Industry Co. Ltd. ....</b>	<b>(Mid Colour P.6)</b>
<b>Xuenas Equipments for Liquors .....</b>	<b>(Mid Colour P.7)</b>
<b>Guizhoulong Daqu Jiang-flavor Base Liquor .....</b>	<b>(Mid Colour P.8)</b>
<b>Gangyang Brand Fragrance &amp; Auxilliary Materials for Wine-making .....</b>	<b>(Back Colour P.1)</b>
<b>Base Liquor Provided by Chengdu Changcheng Chuanxing Distillery .....</b>	<b>(Back Colour P.2)</b>
<b>Linhai Machinery .....</b>	<b>(Back Colour P.3)</b>
<b>Guangfu Liquor Automated Liquor-making System .....</b>	<b>(Back Colour P.4)</b>
<b>Patented Wine-making Equipments of Taishanquan Co.Ltd. ....</b>	<b>(Back Colour P.5)</b>
<b>Yiwen Purification and Filtration Equipment for Liquors and Water .....</b>	<b>(Back Colour P.6)</b>
<b>Jiang-flavor Base Liquor of Guowujian Liquor Industry Co. ....</b>	<b>(Back Colour P.7)</b>
<b>Eight Base Liquor-making Enterprises in Sichuan .....</b>	<b>(Back Colour P.8)</b>
<b>Controlling System for Daqu-making by Beijing Qishuo Company .....</b>	<b>(Back Colour P.9)</b>
<b>Jiang-flavour Base Liquor by Gold Jiang-flavour Liquor Industry Co. ....</b>	<b>(Back Colour P.10)</b>
<b>Pret Liquor-making Equipments .....</b>	<b>(Back Colour P.11)</b>
<b>Baiaofu Fermented Products .....</b>	<b>(Back Colour P.12)</b>

## Liquor-making Science & Technology

(Monthly)

No.8 Tol.230 Aug. 18, 2013

### SPONSORED BY:

Guizhou Light Industry Scientific Research Institute

### PUBLISHED BY:

《Liquor-making Science & Technology》 Publishing House

No.58, Middle Road Shachong, Guiyang, China

P.C.:550007

E-mail:LMST@public.gz.cn

http://www.LMST.com.cn

### SUBSCRIPTION:

The post offices (stops) all over China

PERIODICAL NO: ISSN 1001-9286/CN 52-1051/TS

### OVERSEA DISTRIBUTION:

China International Book Trading Co.

P.O.B.: 399, Beijing, China

SUBSCRIPTION CODE: BM4236

PRICE: \$18.00/issue, \$216.00/year