

## QUALITY OF DOMESTIC COW'S CHEESES PRODUCED BY HEAT TREATMENT OF MILK

SUZANA JAHIĆ\*, SEBILA REKANOVIĆ, SEMRA DURANOVIĆ

Biotechnical faculty, University of Bihać, Luke Marjanovića bb, 77 000 Bihać,

[suzanajahic2002@gmail.com](mailto:suzanajahic2002@gmail.com)

Biotechnical faculty, University of Bihać, Luke Marjanovića bb, 77 000 Bihać,

[sebilarekanovic@outlook.com](mailto:sebilarekanovic@outlook.com)

Biotechnical faculty, University of Bihać, Luke Marjanovića bb, 77 000 Bihać,

[semra.duranovic23@gmail.com](mailto:semra.duranovic23@gmail.com)

Una - Sana Canton with geographical and climatic characteristics abounds in different types of cheese produced from cow 's milk. This paper presents the production process and the results of chemical and sensory analysis of three types of domestic cow's cheeses, where we used acetic acid (80%) and whey for milk coagulation, whit heating temperature of milk ranged from 90°C to 95°C, and for the third type of cheese, we coagulated the milk using our own microflora, where the heating temperature ranged from 50°C to 55°C. Cheeses obtained by coagulation of milk using their own microflora and whey could be classified as semi-soft soft cheeses, and cheese obtained by coagulation of milk with 80% acetic acid in the group of semi-hard cheeses. Sensory analysis of the cheeses showed that the cheese obtained by coagulation of milk with 80% acetic acid had the highest total score of 94.10; followed by cheese obtained by coagulation of milk by its own microflora with 84.16 points, and the lowest number of points 81.92 was obtained by cheese obtained by coagulation of milk by whey.

**Keywords:** domestic cow's cheeses, heat treatment, chemical and sensory analysis

Poster presentation

## INFLUENCE OF PROCESS PARAMETERS ON THE PRODUCTION OF TRICHODERMA BIOCONTROL AGENT

IVANA MITROVIĆ\*, SONJA TANČIĆ ŽIVANOV, BOŽANA PURAR, ZORANA TRIVUNOVIĆ,  
BOJAN MITROVIĆ

Faculty of Technology Novi Sad, University of Novi Sad, Bulevar cara Lazara 1, Novi Sad 21000,

Serbia, \* [tadi@uns.ac.rs](mailto:tadi@uns.ac.rs)

[ron@uns.ac.rs](mailto:ron@uns.ac.rs)

Institute of Field and Vegetable Crops, Maksima Gorkog 30, Novi Sad 21000, Serbia,

[sonja.tancic@nsseme.com](mailto:sonja.tancic@nsseme.com)

[bozana.purar@gmail.com](mailto:bozana.purar@gmail.com)

[bojan.mitrovic@ifvcns.ns.ac.rs](mailto:bojan.mitrovic@ifvcns.ns.ac.rs)

Maize is an agricultural crop that is susceptible to infections by various phytopathogenic fungi, producers of mycotoxins harmful to humans and animals. Since this agricultural crop has an important place in the human diet, its health safety is very important. *Trichoderma* genus has great potential in the biocontrol of various phytopathogens however, the medium composition as well as the cultivation conditions, have a significant impact on the efficiency of the produced *Trichoderma* bioagents. In this work, influence of medium pH, temperature and mixing speed on the productivity of *Trichoderma* bioagent effective against two maize pathogens, *Fusarium graminearum* and *Aspergillus flavus*, was investigated. The results obtained by statistical processing show that the best productivity of *Trichoderma harzianum* bioagent was achieved when the pH of the medium was 6, the temperature was 28°C and the mixing speed of the rotary shaker was 180 rpm. By applying these cultivation conditions, the largest inhibition zone diameters of *F. graminearum* and *A. flavus* mycelial growth were formed. Also, the results show that the maize pathogen, *F. graminearum*, was more sensitive to the produced *Trichoderma* biocontrol agent compared to the other maize pathogen, *A. flavus*.

**Keywords:** *Trichoderma harzianum*; Bioprocess; Process parameters; pH; Temperature; Mixing.

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## TABLE OF CONTENTS

MULTIFUNCTIONAL POLYMER ADDITIVES FOR LUBRICATING OILS Ante Jukić*, Elvira Vidović, Fabio Faraguna, Lucija Rebrović, Mihovil Medić	1	THERMODYNAMICS OF METHYL ORANGE ADSORPTION FROM AQUEOUS SOLUTION USING Zn-BASED MIXED OXIDES Djurdjica Karanovic, Milica Hadnadjev Kostic, Aleksandar Jokic and Tatjana Vulic	6
APPLICATION OF COCOA SHELL IN THE PRODUCTION OF CHOCOLATE AND CHOCOLATE-LIKE PRODUCTS Đurđica Ačkar*, Veronika Barišić, Ivana Flanjak, Jurislav Babić	1	QUALITY OF DOMESTIC COW'S CHEESES PRODUCED BY HEAT TREATMENT OF MILK Suzana Jahić*, Sebila Rekanović, Semra Duranović	7
DETERGENTS IN WASTEWATERS Marina Šćiban	2	INFLUENCE OF PROCESS PARAMETERS ON THE PRODUCTION OF <i>TRICHODERMA</i> BIOCONTROL AGENT Ivana Mitrović*, Sonja Tančić Živanov, Božana Purar, Zorana Trivunović, Bojan Mitrović	7
UPOREDNE EKSTERIJERNE MJERE PRAMENKA OVACA GAJENIH NA TRI LOKALITETA U BOSNI I HERCEGOVINI Husein Vilić* <sup>1</sup> , Amir Hasić <sup>2</sup> , Jelena Nikitović <sup>3</sup> , Emir Mujić <sup>1</sup> , Amir Zenunović <sup>2</sup> , Toni Babić <sup>4</sup> , Refik Šahinović <sup>1</sup>	2	STUDIJA ANTIBAKTERIJSKOG I ANTIOKSIDATIVNOG DJELOVANJA KOMERCIJALNIH ETERIČKIH ULJA Emir Horozic <sup>1</sup> , Enida Karić <sup>2</sup> , Merima Imamović <sup>3</sup> , Edina Huseinović <sup>4</sup> , Darja Husejnagić <sup>4</sup> , Edita Bjelić <sup>1</sup>	8
ELECTROCHEMICAL REMOVAL OF HEXAVALENT CHROMIUM BY ELECTROCOAGULATION Borislav N. Malinovic <sup>1</sup> , Tijana Djuricic <sup>1</sup> , Dajana Dragic <sup>1</sup> , Rade Malesevic <sup>1</sup> , Drazenko Bjelic <sup>2,3</sup>		DETERMINATION OF POLYPHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY OF <i>CUCURBITA PEPO</i> L. LEAVES EXTRACTS OBTAINED BY ULTRASONIC EXTRACTION Lamija Kolarević* <sup>1</sup> , Emir Horozic <sup>2</sup> , Zahida Ademovic <sup>2</sup>	8
FITOREMEDIJACIJSKI POTENCIJAL KUKURUZA ( <i>Zea mays</i> ) ZA ZEMLJIŠTE KONTAMINIRANO TEŠKIM METALIMA Jasmina Ibrahimpašić*, Vildana Jogić, Aida Džaferović, Halid Makić, Merima Toromanović, Samira Dedić	3	THE EVALUATION OF ANTIOXIDANT ACTIVITY AND TOTAL PHENOLIC CONTENT OF <i>LYSIMACHIA VULGARIS</i> L. EXTRACTS Lejla Mekić* <sup>1</sup> , Emir Horozic <sup>2</sup> , Ermina Cilović Kozarević <sup>3</sup>	9
BIOPOLIMERNE NANOČESTICE I JESTIVI BARIJERNI FILMOVI NA BAZI ZEINA Ljiljana Spasojević*, Jelena Škrbić, Sandra Bučko, Jadranka Fraj, Jelena Milinković Budinčić, Lidija Petrović, Jaroslav Katona	4	EFFICIENCY OF DEGREASING BY DISHWASHING DETERGENTS Aleksandra Borković* <sup>1</sup> , Pero Dugić <sup>1</sup> , Tatjana Botić <sup>1</sup> , Sanja Tatić <sup>2</sup> , Dajana Markuljević <sup>3</sup> , Dijana Drljača <sup>1</sup> , Dajana Dragić <sup>1</sup>	9
INDUSTRIAL WASTE – AN ALTERNATIVE MATERIALS FOR SUSTAINABLE WATER AND WASTEWATER TREATMENT Mirna Habuda-Stanić* <sup>1</sup> , Ramzija Cvrk <sup>2</sup> , Sabina Begić <sup>2</sup>	4	THE IMPACT OF KERAS OPTIMIZERS ON THE RUBBER CURING PREDICTION Jelena Lubura*, Dario Balaban, Predrag Kojić, Jelena Pavličević, Bojana Ikonić, Oskar Bera	10
DEVELOPMENT AND ANALYSIS OF BIOFUEL BASED ON FAST-GROWING TREE AND THE POSSIBILITY OF ITS USE AS AN ALTERNATIVE FUEL IN THE CEMENT INDUSTRY Amila Dubravac <sup>1</sup> , Kenan Hadžić <sup>2</sup> , Zehrudin Osmanović <sup>3</sup>	5	MICROBIOLOGICAL ACTIVITY OF JUNIPER BERRY ESSENTIAL OIL ( <i>Juniperus communis</i> L.) EMULSIONS AND MICROCAPSULES Jelena D. Bajac* <sup>1</sup> , Branislava G. Nikolovski <sup>1</sup> , Sunčica Kocić-Tanackov <sup>1</sup> , Emilija Kovačević <sup>1</sup> , Lidija B. Petrović <sup>1</sup>	10
THE POSSIBILITY OF RE-USE THE WASTE STREAM CONDENSATE FROM DRUMS FOR EXTINGUISHING LIME IN THE PROCESS OF SODA PRODUCTION Hana Alihodžić* <sup>1</sup> , Abdel Đozić <sup>2</sup> , Nisad Avdić <sup>3</sup>	5	UTICAJ BRZINE HLADNOG PREŠANJA SJEMENKI SIKAVICE ( <i>SILYBUM MARIANUM</i> ) NA KVALITET ULJA I STEPEN DJELOVANJA PREŠE Sebila Rekanović*, Halid Makić, Elvira Hodžić, Smira Dedić, Ifet Šišić	11
MIKROKAPSULACIJA U SISTEMU HITOZAN/NATRIJUM-DODECIL-SULFAT, UTICAJ METODE DOBIJANJA Jelena Milinković Budinčić*, Lidija Petrović, Milijana Aleksić, Jadranka Fraj, Sandra Bučko, Jaroslav Katona, Ljiljana Spasojević, Jelena Škrbić	6	CURRENT APPROACHES OF BIOTECHNOLOGICAL PRODUCTION OF CAROTENOIDS Vanja Šeregelj, Nemanja Špirić*, Olja Šovljanski, Gordana Četković, Vesna Tumbas Šaponjac, Ana Tomić, Aleksandra Ranitović, Siniša Markov	11
		IMPLEMENTATION OF TECHNOLOGICAL PROCESSES FOR PROCESSING BERRY FRUITS IN ORDER TO OBTAIN NEW PRODUCTS FOR INCREASED MARKET NEEDS	

Milena Vujanović <sup>1</sup> , Gökhan Zengin <sup>2</sup> , Ivana Beara <sup>3</sup> , Vladimir Tomović <sup>1</sup> , Milica Stožinić <sup>1</sup> , Sanja Milošević <sup>1</sup> , Marija Radojković <sup>1</sup>	12	INFLUENCE OF THE REACTION PARAMETERS ON THE SYNTHESIS OF FATTY ACID ISOPENTYL ESTERS	Mia Gotovuša <sup>1,*</sup> , Iva Žuvić <sup>1</sup> , Jelena Parlov-Vuković <sup>2</sup> , Lucija Konjević <sup>2</sup> , Fabio Faraguna <sup>1</sup>	18
ESSENTIAL OIL OF <i>HELICHRYSUM ITALICUM</i> AS A POTENTIAL NEW PHYTOPHARM PRODUCT		INFLUENCE OF CARBON FILLER TYPE ON THERMAL CONDUCTIVITY AND STABILITY OF ESTER RESIN	Kristina Sušac <sup>*</sup> , Marko Babić, Fabio Faraguna, Marko Racar, Elvira Vidović, Ante Jukić	18
Vladislava Nebrigić <sup>1</sup> , Milena Vujanović <sup>1</sup> , Gökhan Zengin <sup>2</sup> , Saša Đurović <sup>3</sup> , Marija Radojković <sup>1</sup>	12	HELJDA U ISHRANI KOKA NOSILJA KAO FAKTOR KVALITETA JAJA	Amir Hasić <sup>1</sup> , Amir. Zenunović <sup>1</sup> , Jelena Nikitović <sup>2</sup> , Toni Babić <sup>3</sup> , Emir Mujic <sup>4</sup> , Husein. Vilić <sup>4</sup> , Refik. Šahinović <sup>4</sup>	19
EFEKTI BISTRENJA DOMAĆEG KUPINOVOG VINA KOMERCIJALNIM BENTONITOM		DETERMINATION OF HEAVY METAL CONTENT IN <i>MENTHA LONGIFOLIA</i> L. FROM BOSNIA AND HERZEGOVINA	Šaćira Mandal	19
*Zoran Petrović <sup>1</sup> , Milica Petronić <sup>1</sup> , Sabina Begić <sup>2</sup> , Tatjana Botić <sup>3</sup> , Dragana Kešelj <sup>1</sup>	13	SELECTIVE SEPARATION AND REMOVAL OF LEAD (II) IONS FROM MULTICOMPONENT SYSTEM THROUGH BLMs SUPPORTED BY FATTY ACIDS	Jasmin Suljagić <sup>1,*</sup> , Mersiha Suljkanović <sup>2</sup> , Edita Bjelić <sup>1</sup> , Azra Kovačević <sup>1</sup>	20
UTICAJ KARAKTERISTIKA I TIPA SIROVE NAFTE NA PRINOS FRAKCIJE GASNOG ULJA		ELEMENTI UGRADNJE ULTRAZVUČNOG MJERAČA PROTOKA, MODEL OMNI TDI 200H, SA REZULTATIMA PROBNOG RADA	Merima Toromanović <sup>*</sup> , Jasmina Ibrahimpašić, Ifet Šišić	20
*Zoran Petrović <sup>1</sup> , Borinka Lisica <sup>2</sup> , Sabina Begić <sup>3</sup> , Pero Dugić <sup>4</sup> , Amir Fazlić <sup>5</sup>	13	RETENTION BEHAVIOR OF TRIAZINES WITH ACYCLIC AND CYCLIC SUBSTITUENTS IN REVERSED-PHASE ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY SYSTEM WITH PHENYL COLUMN AND APROTIC MODIFIER	Benjamin Salaković <sup>1,*</sup> , Strahinja Kovačević <sup>1</sup> , Milica Karadžić Banjac <sup>1</sup> , Jasmina Anojčić <sup>2</sup> , Lidija Jevrić <sup>1</sup> , Sanja Podunavac-Kuzmanović <sup>1</sup> , Slobodan Gadžurić <sup>2</sup> , Dušan Antonović <sup>3</sup>	21
PROCESS DEVELOPMENT FOR SYNTHESIS OF ADVANCED POLY(METHACRYLATE) ADDITIVES FOR LUBRICATING OILS		OPERATOR EXPOSURE TO HEAVY METALS FROM ASHES OF WOOD PELLETS AND HEALTH RISK ASSESSMENT	Mirha Pazalja <sup>1,*</sup> , Mirsada Salihović <sup>1</sup> , Alisa Smajović <sup>1</sup> , Jasmina Sulejmanović <sup>2</sup>	21
Mihovil Medić, Lucija Rebrović, Fabio Faraguna, Elvira Vidović, Ante Jukić <sup>*</sup>	14	FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRIC DETERMINATION OF HEAVY METALS IN WOOD BIOMASS	Mirha Pazalja <sup>1,*</sup> , Mirsada Salihović <sup>1</sup> , Jasmina Sulejmanović <sup>2</sup> , Alisa Smajović <sup>1</sup>	22
PRIMENA POVRŠINSKI MODIFIKOVANIH UGLJENIČNIH NANOCEVI KAO NOSAČA ZA IMOBILIZACIJU PEROKSIDAZE IZ RENA		MORFOLOŠKO - HEMIJSKA ANALIZA DRIJENA ( <i>CORNUS MAS</i> L.)	*Samira Huseinović <sup>1</sup> , Sanida Bektić <sup>1</sup> , Indira Šestan <sup>2</sup> , Larisa Sinanović <sup>2</sup>	22
Mirjana Petronijević <sup>*</sup> , Sanja Panić, Igor Antić, Nataša Đurišić-Mladenović	14	IMPACT OF THERMAL DECOMPOSITION OF SLUDGE FROM AMMONIA-PHENOLIC WASTEWATER TREATMENT PLANT ON FLUE GAS COMPOSITION	Abdel Đozić <sup>*1</sup> , Hana Alihodžić <sup>2</sup> , Vahida Selimbašić <sup>3</sup> , Franc Andrejaš <sup>3</sup> , Vedran Stuhli <sup>3</sup> , Mirnesa Zohorović <sup>3</sup>	23
PRIPREMA I KARAKTERIZACIJA VODENOG RASTVORA FIBROINA SVILE		REMEDICATION OF AGRICULTURAL SOIL AFTER ACCIDENT ON „WHITE SEA“ SEDIMENTATION POND		
Jelena Škrbić <sup>*</sup> , Ljiljana Spasojević, Lidija Petrović, Jelena Milinković Budinčić, Jadranka Fraj, Jaroslav Katona	15			
INVESTIGATION OF PLASTICIZER TYPE AND CONCENTRATION INFLUENCE ON PROPERTIES OF GELATIN AND SODIUM CASEINATE BASED EDIBLE FILMS				
Jadranka Fraj <sup>*</sup> , Lidija Perović, Jelena Milinković Budinčić, Sandra Bučko, Ljiljana Spasojević, Jelena Škrbić, Jaroslav Katona	15			
EFFECT OF PHOSPHORUS SOURCE CONCENTRATION IN WASTE GLYCEROL-BASED MEDIUM ON XANTHAN PRODUCTION				
Ida Zahović <sup>*</sup> , Jelena Dodić, Zorana Trivunović	16			
XANTHAN BIOSYNTHESIS ON WASTEWATERS FROM ROSE WINE PRODUCTION: THE EFFECT OF CULTIVATION TIME				
Zorana Trivunović, Aleksandra Katanski <sup>*</sup> , Vladimir Puškaš, Ivana Mitrović, Jelena Dodić	16			
SYNTHESIS OF FUEL BIOLUBRICANTS BASED ON PENTAERYTHRITOL				
Ivan Pucko <sup>1</sup> , Mia Gotovuša <sup>1</sup> , Kristina Crnjac <sup>1</sup> , Marija Tirić Unetić <sup>2</sup> , Lucija Konjević <sup>2</sup> , Fabio Faraguna <sup>1</sup> , Marko Racar <sup>1</sup>	17			
MONITORING THE STABILITY OF EMULSIONS BY OPTICAL MICROSCOPY				
Marko Babić, Petra Ačkar <sup>*</sup> , Fabio Faraguna, Ante Jukić, Elvira Vidović	17			

Abdel Đozić\*<sup>1</sup>, Hana Alihodžić<sup>2</sup>, Vahida Selimbašić<sup>3</sup>, Franc Andrejaš<sup>3</sup>, Vedran Stuhli<sup>3</sup>,  
Mirnesa Zohorović<sup>3</sup> 23

APPLICATION OF NATURAL BENTONITE IN WASTEWATER TREATMENT FROM PACKAGING  
TAPE PRODUCTION PROCESS

Hana Alihodžić\*<sup>1</sup>, Abdel Đozić<sup>2</sup>, Vahida Selimbašić<sup>3</sup>, Franc Andrejaš<sup>4</sup>, Vedran Stuhli<sup>5</sup>,  
Mirnesa Zohorović<sup>6</sup> 24

APPLICATION OF NATURAL AND ACTIVATED BENTONITE IN WASTEWATER TREATMENT  
FROM INITIAL EXPLOSIVES PRODUCTION PROCESS

Hana Alihodžić\*<sup>1</sup>, Abdel Đozić<sup>2</sup>, Vahida Selimbašić<sup>3</sup>, Franc Andrejaš<sup>4</sup>, Nisad Avdić<sup>5</sup> 24