



ABDEL RAZZAQ ALTAWAHA

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JEENG-02856-2021-02



Testing of Bacterial and Fungal Isolates from Rumen Fluid Used in Inoculants In The Fermentation of Feed From Agro-Industrial Waste

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TITLE AND TYPE

1

Title

Testing of Bacterial and Fungal Isolates from Rumen Fluid Used in Inoculants In The Fermentation of Feed From Agro-Industrial Waste

Type

Research paper

ABSTRACT

2

The addition of the inoculant can accelerate the fermentation process and improve the quality of the feed material in fermentation. This study aimed to isolate, test and select the rumen microorganisms that have high ability to degrade the fiber and improve the quality of materials used in inoculants to ferment agricultural wastes as alternative feed. Microbial isolate was extracted from cattle rumen fluid. The isolates type of fungus were grown on Potato Dextrose Agar (PDA) while the bacteria was grown on Nutrient Agar (NA) medium. Microbes of fungi were tested and selected based on their ability to produce ligninase, cellulase and hemicellulase enzymes. Bacteria were grown on MRS broth media as a confirmation for LAB colonies, then tested for gram staining, catalase test, growth on different NaCl levels (4 and 6.5%) and growth at various pH (3, 4, and 5). The results showed that five fungal isolates had a growth diameter of 0.1–0.37 mm on lignin, cellulose and hemicellulose media after seven days. Eleven bacterial isolates were indicated as lactic acid bacteria; almost all isolates could grow on NaCl 6.5%, but only four bacterial isolates could grow on NaCl 4% and five bacterial isolates could grow at pH 3. In conclusion, three isolates of fungi have a remarkable ability to degrade lignin. Five isolates of lactic acid bacteria have a comprehensive ability as a preservative in fermentation, so eight microbial isolates from rumen fluid can be used as inoculants in fermenting the feed material from agro-industrial waste

AUTHORS

3

CORRESPONDING AUTHOR

Dr. ABDEL RAZZAQ ALTAWAHA (abdelrazzaqaltawaha@gmail.com)



Department of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

Contribution

E - Critical revision of the article

F - Final approval of the article

es

Country	Jordan
ORCID iD	 0000-0003-0826-0942
Dr. Jamila Mustabi	
Hasanuddin University, Nutrition and Feed Department, Faculty of Animal Science, Makassar, Indonesia	
Contribution	A - Research concept and design B - Collection and/or assembly of data
Country	Indonesia
ORCID iD	 0000-0002-1031-9889

AUTHOR'S STATEMENTS

4

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KEYWORDS

5

Rumen fluid microorganism, fiber decomposing fungi, Lactid acid bacteria

TOPICS

6

Environmental monitoring
Environmental protection of rural areas
Industrial and municipal waste management

EXPLANATION LETTER

7

The revised paper was corrected according to the reviewer's comments.

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FILES

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Jamila, S.Pt. M.Si. <jamila@unhas.ac.id>

Revisi Artikel Jamila

9 messages

Jamila, S.Pt. M.Si. <jamila@unhas.ac.id>
To: abdelrazzaqaltawaha@gmail.com

Sun, Aug 1, 2021 at 12:02 PM

Assalamualaikum WrWb

Nice to meet you, I'm Jamila Mustabi, a friend of Mrs. Nurani Sirajuddin. Some time ago, Mrs. Sirajuddin sent an article entitled "Testing of Bacterial and Fungal Isolates from Rumen Fluid Used in Inoculants In The Fermentation of Feed From Agro-Industrial Waste". We request that you send proof of submission and correspondence to the journal. Herewith I attach a revision of our article. Thank you very much for your attention and help Best regards Jamila Mustabi

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Jamila, S.Pt. M.Si. <jamila@unhas.ac.id>
To: sitti_nurani@yahoo.co.id, "Jamila, S.Pt. M.Si." <jamila@unhas.ac.id>

Sun, Aug 1, 2021 at 12:08 PM

[Quoted text hidden]

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Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>
To: "Jamila, S.Pt. M.Si." <jamila@unhas.ac.id>

Sun, Aug 1, 2021 at 5:36 PM

Dear sister Jamila,

Thanks a lot for your kind words. I will do my best. Please inform me if you want Q3 or Q2 Journal.

Please insert the 5 keywords into the paper and send me back.

On Sun, Aug 1, 2021 at 7:02 AM Jamila, S.Pt. M.Si. <jamila@unhas.ac.id> wrote:

Assalamualaikum WrWb

Nice to meet you, I'm Jamila Mustabi, a friend of Mrs. Nurani Sirajuddin. Some time ago, Mrs. Sirajuddin sent an article entitled "Testing of Bacterial and Fungal Isolates from Rumen Fluid Used in Inoculants In The Fermentation of Feed From Agro-Industrial Waste". We request that you send proof of submission and correspondence to the journal. Herewith I attach a revision of our article. Thank you very much for your attention and help Best regards Jamila Mustabi

--

Best Regards

ABDEL RAZZAQ M. ALTAWAHA

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Google scholar link

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Researchgate Link

https://www.researchgate.net/profile/Abdelrazzaq_Al-Tawaha

Other links

Author ID Scopus: 57204887133

ResearcherID: A-6059-2019

URL: <http://www.researcherid.com/rid/A-6059-2019>

ORCID: <http://orcid.org/0000-0003-0826-0942>

Jamila, S.Pt. M.Si. <jamila@unhas.ac.id>
To: Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>

Mon, Aug 2, 2021 at 5:38 PM

Walaikumsalam WrWb..

Dear Mr. Thawaha

Herewith I attach the article that I have added keywords. I hope this article can be accepted in the journal Q2

yours sincerely

Jamila Mustabi

Department Animal Nutrition

Faculty of Animal Science

Hasanuddin University, Makassar

Indonesia

[Quoted text hidden]



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Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>
To: "Jamila, S.Pt. M.Si." <jamila@unhas.ac.id>

Tue, Aug 3, 2021 at 8:13 PM

Dear sister,

I have requested to insert the ORCID number for you and at least the other two authors.

I can confirm that your paper can publish in Q3 paper from Poland.

Q2 Quit difficult due you need a quick publication.

[Quoted text hidden]

Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>
To: "Jamila, S.Pt. M.Si." <jamila@unhas.ac.id>

Wed, Aug 4, 2021 at 7:23 AM

???

[Quoted text hidden]

Jamila, S.Pt. M.Si. <jamila@unhas.ac.id>
To: Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>

Mon, Aug 9, 2021 at 2:51 PM

Dear brother Mr. Tawaha,

Sorry, I was in a place where there was no signal, so I was late to reply to your email. Below I write down my orcid number and two other authors. I hope the information matches what you asked for.

I want to ask, approximately how much time and money do I need if I want to publish in the Q2 journal..?

Jamila Mustabi, Hasanuddin University, Nutrition and Feed Department, Faculty of Animal Science, Makassar, Indonesia,
jamila@unhas.ac.id
<https://orcid.org/0000-0002-1031-9889>

Ambo Ako, Hasanuddin University, Animal Production Department, Faculty of Animal Science, Makassar, Indonesia
<https://orcid.org/0000-0003-3128-5945>

Asmuddin Natsir, Hasanuddin University, Nutrition and Feed Department, Faculty of Animal Science, Makassar, Indonesia
<https://orcid.org/0000-0001-6442-2788>

Thanks for your attention
Wassalamualaikum WrWb
Jamila Mustabi

[Quoted text hidden]

Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>
To: "Jamila, S.Pt. M.Si." <jamila@unhas.ac.id>

Mon, Aug 9, 2021 at 5:03 PM

Dear sister,

The fees for the Q2 journals are more than 600 USD. In addition it needs time to review more than 3 months.

I can help you with journal Q3 in a short time InsyaAllah.

Can please add the ORCID Number to your paper and send me again. I waiting for you.

[Quoted text hidden]

Jamila, S.Pt. M.Si. <jamila@unhas.ac.id>
To: Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com>

Tue, Aug 10, 2021 at 10:34 AM

Dear Abdelrazzaq my brother,
Tq for helping to submit to the Q3 jurnal...
I hope ALLAH SWT repay all the goodness

Salam
Jamila Mustabi

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thawaha



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 - BANK 2
 - DIKLAT ONLINE 8
 - ResearchGate 29



Abdelrazzaq Al-Tawaha <abdelrazzaqaltawaha@gmail.com> to me

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