



New Antifungal, Antibiotic Discovered from Pathogenic Bacteria in Potatoes

Antibiotic and antimicrobial resistance have become a serious problem because people around the world use and misuse drugs at a high rate. As a result, many researchers try to invent new antibiotics.

Recently published in the journal mBio, the researcher team from the American Society for Microbiology discovered a new antifungal compound called “Solanimycin” that was produced from *Dickeya solani* bacterium isolated from infected potatoes. This bacterium causes a disease known as Dickeyasolani which causes blackleg and soft rots in potatoes. It was reported that in 2010, the cost of potatoes damage was as high as 25-30 million.

Solanimycin is an antibiotic that acts against a wide range of fungi known to infect and damage agricultural crops. The use of this antifungal, for example, to treat *Candida albicans* that found both in human body and on human skin. If there is too much growth of this yeast, it can lead to infections such as urinary tract, genital and oral infections. Moreover, it can be more dangerous, if it is up to the point of infection in the lungs.

Besides Solanimycin, an additional antibiotic called “Oocidin A” was discovered. It is effective against fungal pathogens in plants as well.

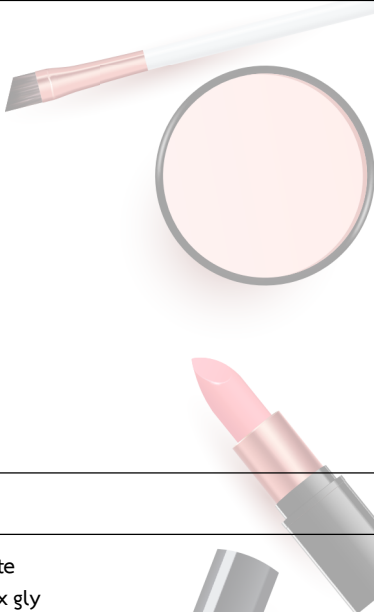


These findings suggest that Solanimycin and the related compounds are potentially useful in both agricultural and clinical settings.

References:

1. <https://news.abplive.com/science/researchers-discover-new-antifungal-antibiotic-solanimycin-produced-by-pathogenic-potato-bacterium-dickeyasolani-1557538>
2. <https://www.labroots.com/trending/plants-and-animals/23786/antimicrobial-discovered-bacteria-infests-potatoes>
3. https://en.wikipedia.org/wiki/Dickeya_solani
4. <https://www.medicalnewstoday.com/articles/antibiotic-from-potato-infecting-microbe-could-help-treat-candida#Antibiotics-for-fungal-infections>



List of Substances That Must Add Condition for Notification or Renewal Cosmetic Notification (Part 1)

Condition	ingredient
Do not use in children under 3 years old.	<ol style="list-style-type: none"> 1. Boric acid 2. Calcium salicylate 3. Iodopropynyl butylcarbamate 4. Magnesium salicylate 5. Mea-borate 6. Mea-salicylate 7. Potassium borate 8. Potassium salicylate 9. Salicylic acid 10. Silver acid 11. Sodium borate 12. Sodium perborate 13. Sodium salicylate 14. Tea-salicylate 
Do not use in children under 10 years old	<ol style="list-style-type: none"> 1. Ethyl lauroyl arginate HCL
This product is not aerosol spray product.	<ol style="list-style-type: none"> 1. Aluminum zirconium octachlorohydrate 2. Aluminum zirconium octachlorohydrax gly 3. Aluminum zirconium pentachlorohydrate 4. Aluminium zirconium pentachlorohydrax gly 5. Aluminium zirconium tetrachlorohydrate 6. Aluminium zirconium tetrachlorohydrax gly 7. Aluminum zirconium tetrachlorohydrax peg 8. Aluminium zirconium tetrachlorohydrax pg 9. Aluminum zirconium trichlorohydrate 10. Aluminium zirconium trichlorohydrax gly 11. Butoxydiglycol 12. Butoxyethanol 13. Chlorobutanol 14. Dehydroacetic acid 15. Dimethylol ethylene thiourea 16. Formaldehyde 17. Glutaral 18. Paraformaldehyde 19. Sodium dehydroacetate 
This product is not spray product.	<ol style="list-style-type: none"> 1. Carbon black (nano) 2. Ethoxydiglycol 3. Methylene bis-benzotriazolyl tetramethylbutylphenol (nano) 4. Phenylene bis-diphenyltriazine 5. Titanium dioxide (nano) 6. Triclosan 7. Tris-biphenyl triazine 8. Zinc oxide (nano) 

Reference: <https://www.fda.moph.go.th>

To be continued next month. >>



Event/ Website



Date

Event/Website

13 Jan	Pharmactive Webinar: High performance extract to improve the digestion of proteins, Chemico Inter Corporation Co., Ltd., Bangkok, Thailand
27 Jan	Chakra We Care Webinar, Chemico Inter Corporation Co., Ltd., Bangkok, Thailand
1-2 Feb	2 nd Sustainable Plant Based Protein & Fermentation Solutions ASIA, Bangkok, Thailand https://www.cmtevents.com/aboutevent.aspx?ev=230204&
6-8 Feb	Beautyworld Japan Fukuoka, Fukuoka, Japan https://beautyworld-japan-fukuoka.jp.messefrankfurt.com/fukuoka/en.html
8-11 Feb	Food Pack Asia, Bangkok, Thailand https://www.foodpackthailand.com/en/homepage/
14-17 Feb	BioFach 2023, Nuremberg, Germany https://www.biofach.de/en
15-17 Feb	The 33 rd Gourmet & Dining Style Show Spring 2023, Tokyo, Japan https://www.gourmetdiningstyleshow.com/english/ PCHi2023, Guangzhou, China https://www.pchi-china.com/en
19-22 Feb	Global Beauty & Wellness Exchange, Bluffton, USA https://globalbeautyexchange2023.converve.io/
20-24 Feb	Gulfood 2023, Dubai, UAE http://www.gulfood.com/
21-22 Feb	Sustainable Packaging Solutions, Bangkok, Thailand https://www.cmtevents.com/aboutevent.aspx?ev=230205&
28 Feb-1 Mar	5 th Algae World Europe, Rotterdam, Netherlands https://www.cmtevents.com/aboutevent.aspx?ev=221034&





OUR News :

Dec 2022

DCAC Webinar, Myanmar

Chemico Myanmar Co.,Ltd. in collaboration with Daito Chemico Asia Color Cosmetics (DCAC) Center organized an interesting webinar on December 15, 2022 under the topic “ What’s New in Makeup Trends.” We presented Makeup trends and information of raw materials related to the trends. Attendees were interesting and participated in survey and sample request section. And, we will distribute samples and documents to all requested customers after the webinar.

CAHB Food Webinar, Thailand

Chemico Asia Health and Beauty (CAHB) Center, a member of Chemico Group, Thailand organized a webinar entitled “Dietary Supplement Trends to Watch in 2023” on December 15, 2022. The webinar presented dietary supplement trends, market information and global market products as well as the related ingredients.



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