

Sanitizer developed from Tea plant extract oil

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Department of Biotechnology, National Institute of Technology, Arunachal Pradesh had prepared hand sanitizers based on tea tree oil. Our main goal to produce this product was to ease up the shortage of hand sanitizer and “Alcohol rub sanitizer” which helps to keep away coronavirus as advised by WHO. Our hand sanitizer was gel-based and prepared during the crisis for mass use in order to decrease infectious agents on the hands. It is generally more effective in killing microorganisms and have better portability than soap and water. The formulation consists of 70% isopropyl alcohol, 3% tea tree oil (prepared in our lab), 2% Glycerine, 3% Triethanolamine, 1% Propylene glycol, 0.1% Carbomer, water and fragrance as needed. The prepared product had been packed in 30 ml homeopathy dispensary bottles (due to the scarcity of original bottle) and then distributed among our campus community people as a complementary product from Dr. Saikat Kumar Jana and his research team especially Mr. Thanga Pandi and Ms. Kokilavani.R, Department of Biotechnology, NIT, AP. The tentative cost of the hand sanitizer is Rs 30/- for 100 ml which is more cost effective than commercialized sanitizer which are presently available in market.



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YUPIA, Mar 23: A faculty from the National Institute of Technology, Dept. Of Biotechnology, Dr. Saikat Kumar Jana and his research group produced hand sanitizer with tea plant extract oil under the project of MOEF, Govt. of India.

Sanitizers have been considered indispensable in the past few days to fight against COVID-19.

Unfortunately, the inadequate supply of hand sanitizers is jeopardizing the crusade against the deadly virus. Signs of “No mask and sanitizer available” in pharmacies have made the scenario much worse resulting in panicked common people.

In this situation, institutes like National Institute of Technology, set an example to fight against it

innovatively with a touch of humanity.

Jana while talking to this daily informed that “the sanitizer is not for commercial purposes but to protect the faculties and staff and for those who cannot afford the basic hygiene equipment.”

He also said that in this hour of need, awareness and proper precautions can only save us.

