

## Probiotic with Bio-therapeutic Potential Dairy Flora, and Preservation Technology for Ready to Use Dairy Cultures

<i>Salient features</i>	<ul style="list-style-type: none"> <li>➤ Isolation and Identification of indigenous dairy flora from fermented dairy products consumed in Punjab and screening for their probiotic attributes.</li> <li>➤ Best organism or consortium of organisms for product development (Curd and/or Lassi).</li> <li>➤ Bio-therapeutic efficacy and safety of selected isolates under <i>in vitro</i> cell line models.</li> <li>➤ Commercialization of indigenous <i>Lactobacillus</i> isolates of Punjab origin as potential probiotic.</li> <li>➤ A regional culture collection centre to cater the need of progressive farmers, medium and large dairy/food industries in Northern India</li> </ul>
<i>Advantages</i>	<ul style="list-style-type: none"> <li>✓ Development of in-house technology for long term storage, maintenance and dissemination of ready to use dairy cultures to farmer's doorstep.</li> </ul>
<i>Process Technology / Product developed by</i>	<p>Dr. Harsh Panwar, Department of Dairy Microbiology, College of Dairy Science and Technology Guru Angad Dev Veterinary and Animal Science University (GADVASU), Ludhiana Punjab. <a href="mailto:drhpanwar@gmail.com">drhpanwar@gmail.com</a>, <a href="mailto:harshpanwar@gadvasu.in">harshpanwar@gadvasu.in</a></p> <p>Dr. Pranav K Singh, Department of Dairy Technology, Dr. Santosh K Mishra, Department of Dairy Microbiology College of Dairy Science and Technology, GADVASU, Ludhiana, Punjab</p>
<i>Year</i>	2014-15
<i>Source of funding</i>	MoFPI
<i>More information</i>	<p><b>Status of commercialization / Patent / Publication</b></p> <p>Screening of cell surface properties of potential probiotic lactobacilli isolated from human milk. <i>Journal of Dairy Research</i>, 85(3): 347-354. (2018). DOI: 10.1017/S0022029918000432</p> <p>Inhibitory effects of lactobacilli of goat's milk origin against growth and biofilm formation by pathogens: an in vitro study. <i>Food Bioscience</i>. (2018). DOI10.1016/j.fbio.2018.02.001.</p> <p>In vitro assessment of antibiotic resistance pattern among <i>Lactobacillus</i> Strains isolated from goat milk. <i>Int. J. Curr. Microbiol. App. Sci.</i>, 7(1): 2108-2116. (2018).</p>

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