

## Probiotics: New prophylaxis and curing weapon against diseases

**Abhinandan Ravsaheb Patil**  
Shivaji University, India

Bacteria in this today world mostly considered as pathogenic. As every coin had two sides' bacteria though are pathogenic but still few are friendly essential for human growth and immunity. Such friendly bacteria are called Probiotics. *L. acidophilus* is one of probiotic bacterium found primarily in the small intestine where if introduced in sufficient colony serve as new prophylaxis and curing agent. Indian market lacks the quality uni-strain (containing one specific strain) product of the probiotics for the treatment and prophylaxis of the most of the disease. Commercially large use of antibiotics explored against the pathogenic micro-organism. By using the probiotics the hazardous of antibiotics can be minimized with the deletion of the side effects occurred due to heavy intake of xenobiotics drugs seen mostly in women's and children as they are most sensitive and prone. The best mode to utilize healing quality of probiotics is to convert in dosage form. Technique require greater accuracy in case of the asepsis and maintenance of viability, This novel drug delivery system can also be beneficial for meeting the current needs with proper execution. Cfu (colony forming units) will give dry powder from culture media via process of encapsulation. To shape formulation capsule generation with unique dose adjustment will serve the Moto as new prophylaxis and curing agent against diseases even cancer. Inculcating the Onco (cancer cells) role is dramatically played by these wonder microbes by devising them in above described formulation.

### Biography

Abhinandan R Patil is now studying M.Pharma 2<sup>nd</sup> year at the age of 24 years from Shivaji University Maharashtra. He is the Pharma director of Atmatara foundation and working as junior scientist (Kolhapur: India). He has participated and won prizes in many national conferences.

arpatil.tkcp@gmail.com

## Design and development of fast disintegrating tablet of diclofenac sodium

**Akanksha Gupta, S. Sharma, P. Mohan, M.P. Khinchi, Dilip Agrawal, Natasha Sharma, M.P. Kabra and M.K. Gupta**  
Department of Pharmaceutics, Kota College of Pharmacy, India

Diclofenac sodium is among the most extensively used NSAIDS; employed in rheumatoid arthritis and osteoarthritis, affords quick relief of pain and wound edema. Fast disintegrating tablets are gaining prominence as new drug delivery systems. These dosage forms disintegrate within a minute with very less quantity of water. Fast disintegrating tablets of Diclofenac sodium were prepared by direct compression method after incorporating superdisintegrants like Crosscarmellose sodium (CCS) and Crosspovidone (Polyplasdone XL) in different concentrations. Six formulations comprising superdisintegrants at different concentration levels were prepared to access their efficiency and critical concentration level. Different types of evaluation parameters for tablets were performed. Tablets containing combination of crosscarmellose sodium and crosspovidone at two different concentrations (3 % and 2 %) and (4 % and 3 %) show excellent and almost similar in-vitro disintegration time and drug release profile as compared to other formulations.

### Biography

Akanksha Gupta completed B. Pharma in 2007 from Kota College of Pharmacy, Kota (RAJ.). Presently she is M. Pharma Pharmaceutics Student in Kota College of Pharmacy, Kota (Rajasthan). Akanksha is having 3 International review articles. Her Research Guide is Dr. M.P. Khinchi is having 15 International Research Articles, 20 International Review Articles and he is Attended 12 National Conferences.

akankshagupta1@yahoo.in