

Patent Granted Year-wise to ICAR-National Dairy Research Institute, Karnal
(2000-June 30, 2024)

Before 2000 (3)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	Process for producing bacterial rennet like enzymes (96317)	Inderjit Babar, Ramanuja Puram Appachar Srinivsan, Subhash Chandra Charavorty, Mandyam Krishna kumar, Krishna iyengar, & Arjun Thanwardas Dudani	On 15.02.1967
2	Improvement in or relating to the preparation of khoa (112505)	Asmikumar Bannerjee, Inderpal Singh Verma, & Brojendra Chandra Bagchi	On 25.02.1969
3	A process for the preparation of a beverage (69/DEL/1985)	D.N. Gandhi	160280 on 04.07.1997
2013 (1)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A pcr based method for differentiating cow and buffalo milk(1385/DEL/2007)	Sachinandan De, Rameshwar Singh, K.P. Singh, T.K. Datta, & S.L. Goswami	257958 on 22.11.2013
2014 (4)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A novel process of sporulation, activation and germination in thermophilic bacteria for rapid detection of antibiotic residues in milk (1479/DEL/2006)	Naresh Kumar, Sharmila Sawant, G.R. Patil, & R.K. Malik	264145 on 09.12.2014
2	Process for manufacture of spray dried cheddar flavour base/ concentrate(1181/DEL/2007)	D. K. Sharma, & B. D. Tiwari	257068 on 30.08.2014
3	A non-invasive dna isolation methodology in dairy animals (1366/DEL/2007)	Sachinandan De, Ashutosh Sharma, Paras Yadav, Tirtha Kumar Datta & S.L. Goswami	258646 on 28.01.2014
4	A process for commercial	G.R. Patil, Hilal Ahmad Punoo, &	260553 on 07.05.2014

	manufacture of kradi (2134/DEL/2008)	R. R. B. Singh	
2015 (2)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A kit for detection of detergent in milk (1970/DEL/2006)	Y.S. Rajput, Rajan Sharma &Sumandeep Kaur	264661 on 14.01.2015
2	A process for the preparation of milk cake (641/DEL/2007)	Anil Kumar, G.R. Patil, A.A. Patel, & R.R.B Singh	270312 On 10.12.2015
2016 (3)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A multipurpose device for concentration, dialysis and buffer exchange of protein solution and a process for the same (1703/DEL/2006)	Y.S. Rajput & M.P. Divya	276077 on 29.09.2016
2	Spore germination based detection kit for b-lactum group in milk (115/DEL/2009)	Naresh Kumar, Sougata Das &Manju G	273160 on 20.05.2016
3	A kit for detection of adulteration of 'soymilk' in milk (396/DEL/2009)	Y.S. Rajput, Rajan Sharma &Poonam	275521 on 08.09.2016
2017 (1)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A process for the preparation of ready to reconstitute kheer mix (1076/DEL/2006*)	AA Patel, GR Patil, R.R.B. Singh, N. Tyagi, V Tripathi& A Jha	284267 on 15.06.2017
2018 (4)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	Estimation of tannin metabolites in blood serum and cow milk using HPLC (1831/DEL/2004)	Keshab Barman & S.N. Rai	301155 on 19.09.2018
2	A process of preparing a spore inhibition-based enzyme substrate assay for monitoring aflatoxin in milk(3064/DEL/2010)	Naresh Kumar, Namita Ashish Singh, Vanai Kumar Singh, Sunil Bhand& R.K. Mailk	292836 on 13.02.2018

3	Three stage thin film scraped surface heat exchanger for continuous manufacture of khoa (583/DEL/2010)	A. K. Dodeja, Dharam Pal & S. P. Agrawala	304816 on 21.12.2018
4	Value addition of paneer and dahi through herbal feed additives from cow milk (152/DEL/2009)	SachchidaNand Rai, & Deepak Kumar Dubay	294928 on 26.03.2018
2019 (8)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	Spectrophotometric method of estimation of Tannin acyl hydrolase activity in remendigesta (1120/DEL/2005)	Keshab Barman & S.N. Rai	310997 on 09.04.2019
2	Process for shelf stable low -fat tomato-wheysoup (714/DEL/2006)	Sudhir Singh, Kamavaram Sudheer, AlokJha, A. A. Patel & G. R. Patil	306128 on 23.01.2019
3	A formulation and process for ready-to reconstitute Basundi mix (2226/DEL/2007)	Prateek Sharma, R. R. B. Singh, G.R. Patil& A. A. Patel	311005 on 09.04.2019
4	A process for preparation of feta cheese from Buffalo milk using microbial rennet (128/ DEL/2011)	Sanjeev Kumar & S. K. Kanawjia	305768 on 16.01.2019
5	A qualitative and quantitative test for anionic detergent in milk” (3677/DEL/2011)	Amit Kumar Barui, Rajan Sharma & Y.S. Rajput	325924 on 27.11.2019
6	Real time detection of <i>enterococci</i> in dairy foods using spore germination based bioassay. (119/DEL/2012)	Gurpreet Kaur, Naresh Kumar, G. Thakur, Raghu, H.V., N. Singh, V. K. Singh, &Raghav N.	325986 on 27.11.2019
7	Aptamers specific for aflatoxin m1 and b1 (1864/DEL/2013)	Shilpi Malhotra, Y. S. Rajput &Rajan Sharma	324848 on 11.11.2019
8	Casein hydrolysates rich in caseinophosphopeptides (331/DEL/2013)	Bimlesh Mann, Prerna, & Rajesh Kumar	319794 on 04.09.2019
2020 (3)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A process of bioethanol production by immobilized thermotolerant yeast	MinakshiDahiya&ShipaViz	332454 on 19.02.2020

	from whey (3710/DEL/2011)		
2	Aptamer specific for betacasomorphin 7 (BCM7) (3703/DEL/2013)	Y. S. Rajput, Abhishek&Rajan Sharma	354948 on 31.12.2020
3	Oil in water curcuminnanoemulsion and method of preparation thereof (201611018434)	Bimlesh Mann, Rajan Sharma & Rajesh Bajaj	345401 on 28.08.2020
2021 (7)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	Method and system for automatic identification and estrous detection in buffaloes on their vocalization patterns (3090/DEL/2011)	Yajuvendra Singh, S. P. Lathwal, T. K. Mohanty, A. P. Ruhil& Shiv Prasad	378373on 30.09.2021
2	A strip based detection of added urea in milk and process for the same (3472/DEL/2013)	Rajan Sharma, Panchal Bhavesh Kumar R. & Y. S. Rajput	363894on 31.03.2021
3	Development of enzyme-spore based assay (s) for monitoring antibiotic residues in milk (2213/DEL/2014)	Naresh Kumar, Alia Khan, Shivani Arora, FalguniPatra, MeenakshiDahiya, MandeepBalhara, Pradeep Kumar Sharma, &Suleman Shaikh	365074 on 21.04.2021
4	Marker enzymes and spore germination based assay for detection of <i>e. Coli</i> in milk and milk products (2214/DEL/2014)	Naresh Kumar, RamakantLawaniya, Avinash, Bhawna Arora, Raghu HV, MandeepBalhara, SaurabhKadyan,&Viani Kumar	367110 on 20.05.2021
5	A strip based test for detection of detergent in milk (750/DEL/2015)	Y.S. Rajput, Gulab Singh, &Rajan Sharma	363588 on 30.03.2021
6	Novel peptide sequence and polyclonal antibodies for the detection of cow and buffalo luteinizing hormone (1854/DEL/2015)	VarijNayan, Suneel Kumar Onteru&Dheer Singh	364236 on 07.04.2021
7	Caseinophosphopeptides-divalent metal (iron/zinc) nanocomplexes and method of preparation thereof (201711010975)	Bimlesh Mann, Prabin Sarkar, Rajan Sharma, Rajesh Bajaj &MunmunSen	385768 on 31.12.2021
2022 (8)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant

1.	A milk-protein based nutritive antacid and a process for its preparation (574/DEL/2014)	Amit Kumar Jaylalbhaj, Patel Ashok Kumar Ambalal Patel & Ram Ran Bijoy Singh	402839 On 02.08.2022
2.	Antimicrobial nanoemulsion of clove oil stabilized with milk protein and a process thereof (913/DEL/2015)	Bimlesh Mann, Minaxi, Rajan Sharma & Rajesh Kumar	401941on 25.07.2022
3.	Aptamers specific for cefquinome (1775/DEL/2015)	Rajan Sharma, Amit Kumar Barui, Y.S. Rajput, &Bimlesh Mann	395869 on 29.04.2022
4.	A process for manufacture of low-fat chakka and shrikhand by using exopolysaccharides producing bacteria (201811033236)	Pradip V. Behare, SanketBorad, Harisha, & SK Tomar	388158 on 31.01.2022
5.	Stabilization of non-ionic surfactant based nanovesicles loaded with resveratrol using stearic acid and method of preparation thereof (201811004766)	Battula SurendraNath, Vankayala Jaya Sravani, KandasamyRuckmani, MariyaAntonirajGoverAntoniraj, PushpadassHeartwinAmaladhas, NaikLakshmanaNaik, & Franklin MagdalineEljeeva Emerald	404471 On 25.08.2022
6.	A peptide with osteoanabolic and antiresorptive activity (2778/DEL/2013)	VenkatesaPerumalShanmugam, SumanKapila, Rajeev Kapila	405144 On 30.08.2022
7.	Mangifera indica flower panicles' extract stabilized gold nanoparticles and method for making the same (807/DEL/2015)	VarijNayan, Suneel Kumar Onteru, and Dheer Singh	408952 on 12.10.2022
8.	Two Stage Enzyme Assay for Detection of <i>Listeria Monocytogenes</i> in Milk Products (1357/DEL/2013)	MandeepBalhara, Naresh Kumar, Geetika Thakur, Hirikyathanahalli Raghu, Vinay Kumar, RamakantLawaniya, Alia Khan, Shabnam	410633 on 31.10.2022
2023 (05)			
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A Strip for detection of neutralizers in milk (201811030055)	Rajan Sharma, Y.S. Rajput, Priyae Brath Gautam, and Bimlesh Mann	421478 on 13.02.2023

2	A strip for detection of maltodextrin in milk and process for the same (2097/DEL/2014)	Rajan sharma, Y.S. Rajput, Bimlesh Mann, Perna Narula and Rahul Thakur	427031 on 27.03.2023
3	Microfluidic method for enrichment of live and motile spermatozoa of cattle (202011008229)	Ashok kumar mohanty, vinod kumar yata, bhanu prakash, vibhav katoch, neeraj yadav, dharmendra kumar gangwar, Sudarshan kumar, Tushar kumar mohanty	436709 on 30.06.2023
4	Rapid spores-enzyme based miniaturised assay (s) for detection of pesticide residues (3819/DEL/2015)	Dr. Naresh Kumar, Ms. Nimisha Tehri, Mr. Rajesh Gopaul, Mr. Pradeep kumar sharma, Mr. Brijesh Kumar, Ms. Spurti Morab, Mr. Raghu H.V.	450906 on 12.09.2023
5	The preparation of buffalo milk casein hydrolysates with enriched antioxidative peptides and the process thereof (201711023424)	Rajesh Kumar, Rajeev Kapila, Nichal Mayur Ashok Rao, Sowmya, Gulshan Dass, Bimlesh Mann, Suman Kapila,	460340 on 18.10.2023
S. No.	Title of Patent	Inventor (s)	Grant No. and date of Grant
1	A biopolymer based electrospun Oxygen indicator for Dairy Products Packing (	Narender Raju Panjagri, Shivam Panwar, Ashish Kumar Singh, Preashant Saurab Minz, Richa	502210 on 23-01-2024

	201811023361)	Badola, Gaurav Kr Deshwal	
2	A process for production of antimicrobial coagulant formulation for making extended shelf-life paneer (202111007461)	Pradip Vishnu behare, Rallapalli Vembar Rajanikar, Sudhir Kumar Tomar, Diwas Pradhan, Rajan Sharma, Sanket Borad,	504293 on 29/01/2024
3	Construction of mutant strain of kluyveromyces marxianus for enhanced galactose utilization (201711030808)	Shilpa Viz, Arun Beniwal, Priyanka Saini, Sachinandan De	511469 on 16-02-2024
4	Design and development of nanofluid based extended surface module for milk cooling (201811021472)	Ravi Prakash, Chikkamutharayappa Manjunatha, Guruvanna Mahesh Kumar, Kerekoppa Puttaiah Bhatta Ramesha, Giriya pura Basavarajappa Darshan, Menon Rekha Ravindra	516796 on 28-02-2024
5.	A crosslinked membrane with flow-line capable of arresting free-flowing gold nanoparticles and the process for the same (201711036404)	Y.S. Rajput, Nanda Dhiraj Kumar, Rajan Sharma	533338 on 16-04-2024
6.	LABEL FOR INDICATING FRESHNESS OF INDIAN DAIRY PRODUCTS AND PREPARATION METHOD THEREOF (202111004590)	Narender Raju Panjagari, Rakesh Kumar Raman, Karpurapu Uma, Ashish Kumar Singh, Sangita Ganguly	534389 on 23-04-2024