

**TENTH INTERNATIONAL SYMPOSIUM ON
ADVANCES IN TECHNOLOGY AND
BUSINESS POTENTIAL OF NEW DRUG DELIVERY SYSTEMS**

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P 79	<p>DEVELOPMENT OF STRATUM CORNEUM LIPIDS BASED VESICLES FOR TRANSCUTANEOUS IMMUNIZATION</p> <p><u>Pandey R.S.</u>¹ and Dixit V.K.²</p> <p>¹SLT Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)-495009 INDIA</p> <p>²Department of Pharmaceutical Sciences, Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.)-470003 INDIA</p>
P 80	<p>NANO-ETHOSOMAL EMULGEL FOR CUTANEOUS DELIVERY: DERMATOPHARMACOKINETICS</p> <p>Madan M., Bajaj A., <u>Anjali S.</u></p> <p>C.U. Shah College of Pharmacy, Santacruz (W), Mumbai-49.</p>
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P 86	<p>CONTROLLED RELEASE DRUG DELIVERY SYSTEM FOR A WATER SOLUBLE DRUG WITH HIGH DOSE</p> <p><u>Ligade Pushpanjali. C</u>¹, Jadhav Kisan.R¹, Kadam Vilasrao.J¹.</p> <p>¹Department of Pharmaceutics, Bharti vidyapeeth's college of pharmacy, C.B.D Belapur, Sec-8, Navi Mumbai-400614.</p>
P 87	<p>FORMULATION AND EVALUATION OF ONDANSETRON PH INDEPENDENT CONTROLLED RELEASE TABLET</p> <p><u>Raut P.P.</u>, Jaipal A., Manish K., and Charde S.Y.</p> <p>Formulation Development and Pharmacokinetics Laboratory, Pharmacy Group,B.I.T.S., Pilani, Rajasthan. INDIA</p>
P 88	<p>SMECTITE CLAY AS A CONTROLLED RELEASE MATERIAL FOR CARBAMAZEPINE DELIVERY</p> <p><u>Shelar D. B.</u> , Vavia P. R.</p> <p>Department of Pharmaceutical Sciences & Technology, Institute of Chemical Technology (Deemed University) Matunga Mumbai-19,</p>
P 89	<p>FABRICATION AND EFFECT OF FORMULATION VARIABLES ON A CONTROLLED – POROSITY OSMOTIC DRUG DELIVERY SYSTEM OF ROPINIROLE HCL</p> <p><u>Dash Rakesh R.</u>,Avachat Amelia M.</p> <p>Department of Pharmaceutics, Sinhgad College of Pharmacy, Pune-41</p>

P 90	MELATONIN GASTRO RETENTIVE TABLET FOR PERORAL DELIVERY <u>Patil N.M.</u> , Jadhav K.R., Kadam V. J. BharatiVidyapeet's College of Pharmacy, C.B.D., Navi Mumbai-400 614.
P 91	FORMULATION AND EVALUATION OF PH SENSITIVE SOL-GEL SYSTEM OF OFLOXACIN FOR PROLONGED GASTRIC RETENTION <u>Shinde Rakesh. K.</u> , Lahoti S. R, Dehghan M.H.G. Y.B. Chavan College of Pharmacy, Dr. Rafiq Zakaria Campus, Rauza Bagh, Aurangabad-431001. (M.S)
P 92	DESIGN AND DEVELOPMENT OF FLOATING OSMOTIC DRUG DELIVERY SYSTEM OF KETOPROFEN <u>Velip C. B.</u> , Patel V.V., Shahiwala A.F., Mishra M. Department of Pharmaceutics, NIPER- Ahmedabad, C/O B.V.Patel PERD Centre, thaltej, Ahmedabad-380054.
P 93	DESIGN AND DEVELOPMENT OF SWELLING GASTRO RETENTIVE DOSAGE FORM FOR TYPE 2 DIABETES Ige P.P ¹ , Gattani S.G ² Department of Pharmaceutics & Quality Assurance, R C Patel Institute of Pharmaceutical Education & Research, Karwandnaka Shirpur, Dist Dhule 425405 M.S.
P 94	DESIGN AND DEVELOPMENT OF COMPRESSION COATED COLON TARGETED MINI-TABLETS <u>Shah N. N.</u> , Amin A. F. Institute of Pharmacy, Nirma University, S. G. Highway, Ahmedabad, Gujarat.
P 95	DESIGN, DEVELOPMENT OF ORAL DOSAGE FORMS FOR COLON- SPECIFIC DRUG DELIVERY USING ENTERIC POLYMERS <u>Kshirsagar S. J.</u> , Bhalekar M. R., Umap R. R. AISSMS College of Pharmacy, Near R.T.O, Kennedy Road, Pune01
P 96	TARGETED DRUG DELIVERY SYSTEM FOR COLON USING SOY POLYSACCHARIDE <u>Pathak PO</u> , Ursekar BM and Nagarsenker MS Department of Pharmaceutics, Bombay College of Pharmacy, Kalina, Mumbai: 400098, India
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P 99	DEVELOPMENT AND EVALUATION OF IBUPROFEN SUSTAINED RELEASE MINITABLETS <u>Anusha john</u> ¹ , Dr.Athawale R.B ¹ , Dr.Tawde V ² . 1. C.U.Shah College of Pharmacy, S.N.D.T. Women's University, Santacruz west, Mumbai 49, India 2. BASF India Ltd., Thane, Mumbai, India.
P 100	DESIGN AND OPTIMIZATION OF SUSTAIN RELEASE MULTIPARTICULATES PELLATES OF WATER SOLUBLE DRUG NICORANDIL <u>Salunke T.B.</u> , Patil M.A., Chavan R.A., V. Vinodh Prabhu. Department of Pharmacy, PRIST University, East Campus, Thanjavur-613904, Tamilnadu, India.
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P 103	EFFECT OF MICROCRYSTALLINE CELLULOSE ON DIFFERENT RELEASE RETARDANTS Vaidya M. P., Avachat A.M. Department of Pharmaceutics, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Bk), Off Sinhgad Road, Pune-411 041, Maharashtra, India
P 104	INFLUENCE OF HYDROPHILIC POLYMERS ON GLICLAZIDE COMPLEXATION WITH HYDROXYPROPYL B-CYCLODEXTRIN <u>Patil Bramhadev A</u> , Dhane Amol S, Shah Rohit R, Patil Shitalkumar S. Appasaheb Birnale College of Pharmacy, Sangli-416416
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P 106	DIRECT PELLETISATION OF TALC BY EXTRUSION SPHERONISATION TECHNIQUE <u>Gade M. M.</u> , Paradker A.R*., Jadhav N. R. Bharati Vidyapeeth College of Pharmacy, Near Chitranagari, Kolhapur- 41601. *Institute of Pharmaceutical Innovation, University of Bradford, Bradford, United Kingdom. BD7 1DP.
P 107	EFFECT OF VARIABLES ON AGGLOMERATES OF NAPROXEN ENGINEERED BY MELT SONOCRYSTALLIZATION TECHNIQUE (MSC) <u>Badde S.V.</u> , Garg L., Ajay K., Mahadik K.R., Kamble R.N. Department of Pharmaceutics, Bharati Vidyapeeth University, Poona College Of Pharmacy, Pune-38
P 108	RELEASE MODULATING MATRIX SYSTEMS OF LOSARTAN POTASSIUM COMPLEXED WITH DUOLITE AP143 <u>Padalkar R.R</u> , Madgulkar A. R., Bhalekar M. R., Swami M. V AISSMS College of Pharmacy, Kennedy Road, Pune- 411001, India.
P 109	DEVELOPMENT AND EVALUATION OF RESINATE BASED HYDROGEL MICROBEADS FOR CONTROLLED RELEASE OF DILTIAZEM HYDROCHLORIDE <u>Kulkarni Raghavendra.V</u> , Mangond Bannappa.S, Kalyane Navanath.V. Department of Pharmaceutics, BLDEA's College of Pharmacy, BLDE University Campus, Bijapur, Karnataka.
P 110	NOVEL COPROCESSED EXCIPIENTS FOR EXTENDED RELEASE <u>Patil A. S.</u> ¹ , Jadhav K. R. ¹ , Kadam V. J. ² . ¹ Department of Pharmaceutics, Bharati Vidyapeeth's College of Pharmacy, Sector-8, CBD, Navi Mumbai-400614.
P 111	STATISTICAL OPTIMIZATION OF FLOATING SODIUM ALGINATE BEADS OF TIZANIDINE HYDROCHLORIDE USING BOX BEHNKEN DESIGN <u>Mashere K.S.</u> , Mandlik S.K., Ranpise N.S. Department of Pharmaceutics, Sinhgad College of Pharmacy, Vadgaon Bk. Pune-41(MS).
P 112	WET SPHERICAL AGGLOMERATION OF TALC FOR USE AS AN INERT SUBSTRATE FOR COATING <u>Jadhav NR</u> ^{1*} , Pawar AP ³ , Paradkar AR ² . ¹ Department of Pharmaceutics, Bharati Vidyapeeth College of Pharmacy, Kolhapur-416013, Maharashtra State, India. ² Institute of Pharmaceutical Innovation, University of Bradford, Bradford, United Kingdom. BD7 1DP ³ Bharati Vidyapeeth University, Poona College of Pharmacy, Erandwane, Pune-411038, (M.S) India

P 113	NOVEL MUCOADHESIVE POLYMERIC PROTEIN: ISOLATION, CHARACTERIZATION AND EX-VIVO STUDIES <u>Sawant S.S.</u> , Gabhe S.Y.Singh K.K., C.U.Shah College of Pharmacy, SNTD Women's University, Santacruz (W), Mumbai 49.
P 114	PREPARATION, CHARACTERIZATION AND IN VITRO EVALUATION OF ATORVASTATIN CALCIUM SOLID DISPERSION <u>Pravathi.Bandla</u> ¹ , Vijaykumar Nekkanti ² , Vabalaboina Venkateswarlu ² , Marella Seshasai ² ¹ Department of Pharmaceutical Sciences, SRM University, Chennai, ² CPS Formulation, Dr. Reddy's Laboratories Ltd., Hyderabad, Andhra Pradesh - 5000090
P 115	A SEMI IN-VIVO LARVAE MODEL FOR PREDICTION OF DRUG ABSORPTION <u>Kapse Sonali V</u> and Devarajan Padma V Department of Pharmaceutical Sciences and Technology Institute of Chemical Technology (Deemed University), Matunga, Mumbai-400 019
P 116	PREPARATION AND CHARACTERIZATION OF SUSTAINED RELEASE CAPTOPRIL PELLETS BASED ON EUDRAGIT RLPO AND EUDRAGIT RSPO OR THEIR COMBINATION <u>Jaiswal M.K.</u> , Jawale S.B., Kulkarni A.D., Kulkarni P.A., Shirolkar S.V. Department of Pharmaceutics, Dr.D.Y.Patil Institute of Pharmaceutical sciences and Research, Pimpri, Pune - 18
P 117	GLYCOLIPIDS FOR ASSOCIATION WITH DRUGS TO IMPROVE THEIR ORAL DELIVERY <u>Simerska P.</u> , Lee W.L., Toth I. The University of Queensland, School of Chemistry and Molecular Biosciences, St Lucia, 4072, QLD, Australia.
P 118	THERMOSENSITIVE SEMI-INTERPENETRATING POLYMER NETWORK MICROSPHERES FOR CONTROLLED RELEASE OF ATENOLOL <u>Mundargi, R.C.</u> , Rangaswamy, V., Aminabhavi T.M. Industrial Biotechnology Group, Reliance Life Sciences Pvt. Ltd.,Dhirubhai Ambani Life Sciences Centre, Thane Belapur Road, Rabale,Navi Mumbai 400 701, India
P 119	BIODISTRIBUTION OF ANTI-TB DRUG LOADED NANOPARTICLES <u>Ranee B.J.</u> ¹ , Date P. V ¹ , Gaikwad R. V ² , Samad A ² , Devarajan Padma V ¹ . ¹ Department of Pharmaceutical Sciences & Technology, Institute of Chemical Technology (Deemed University), Mumbai-19 ² Veterinary Nuclear Medicine Center, Bombay Veterinary College, Parel, Mumbai 400012.
P 120	BIO-ENGINEERED DRUG DELIVERY SYSTEM FOR ACTIVE TARGETING <u>Shah S. M.</u> , Pathak P. O, Nagarsenker M. S ¹ Department of Pharmaceutics, Bombay College of Pharmacy, Kalina, Santacruz (E), Mumbai-400098.
P 121	ATOMIZED MICRODROPLET ADDITION: AN INNOVATIVE TECHNOLOGY FOR SCALEUP OF LIPOMER <u>Joshi V.M.</u> , Devarajan Padma V. Department of Pharmaceutical Sciences & Technology, Institute of Chemical Technology (Deemed University), Matunga, Mumbai- 400019.
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P 124	ULTRASOUND ASSISTED SYNTHESIS OF ALUMINUM PHOSPHATE PARTICLES FOR VACCINE DELIVERY Kumar Ajay, Badde Shital, Mahadik Kakasaheb, Kamble Ravindra. Department of Pharmaceutics, Bharati Vidyapeeth University, Poona College of Pharmacy, Pune-38

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P 126	<p>FORMULATION AND EVALUATION OF MICROSPONGE DRUG DELIVERY SYSTEM CONTAINING GLABRIDIN</p> <p><u>Deshmukh K.</u>, Poddar S. S. Prin. K. M. Kundnani College of Pharmacy, Colaba, Mumbai- 400005</p>
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P 128	<p>INCORPORATION OF ONDENSETRON HCL-INDION 244 PHYSICAL MIXTURE TO FLOATING MICROSPHERES FOR EXTENDED RELEASE</p> <p><u>Bhawale B. K.</u>, Bhakre H. R., Jadhav N. R. Department of Pharmaceutics, Bharati Vidyapeeth college of Pharmacy, near chitranagari, Morewadi, Kolhapur, M.S. 416013.</p>
P 129	<p>MULTIPARTICULATE SYSTEM FOR CHRONOTHERAPEUTIC DELIVERY OF DILTIAZEM HYDROCHLORIDE</p> <p><u>Jose Sajan</u>, Prema MT, Shan M, Cinu TA, Aleykuty NA. Dept. of Pharmaceutical Sciences, Mahatma Gandhi University, Kottayam, Kerala, India.</p>
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P 132	<p>PREPARATION AND EVALUATION OF CONTROLLED RELEASE MICROSPHERES OF METOCLOPRAMIDE HYDROCHLORIDE BY SPRAY DRYING TECHNOLOGY USING CROSS LINKED CHITOSAN</p> <p>Patel S.J, Bidkar S.G,Shrimali N.S,Bhalekar M.R,Madgulkar A.R AISSMS College of Pharmacy, Near R.T.O, Kennedy Road, Pune-01</p>
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P 134	<p>PREPARATION AND EVALUATION OF METFORMIN HCL MULTIPLE EMULSION</p> <p><u>George T.</u>, Gher R. R., Pokharkar V. B., Mahadik K. R. Dept. of Pharmaceutics, Poona College of Pharmacy, BVU, Pune- 411038</p>
P 135	<p>CONTROLLED RELEASE OF ANTI-INFLAMMATORY AGENTS USING NANOENGINEERED ALGINATE MICROSPHERES: TOWARDS AN IMPLANTABLE GLUCOSE SENSOR</p> <p><u>Jayant R.D.</u>¹ McShane M.J.² & Srivastava R.¹ ¹Department of Biosciences & Bioengineering, IIT Bombay, Powai, Mumbai-400076, ²Biomedical Engineering Department, Texas A& M University, College Station, TX-77843, USA</p>
P 136	<p>BIOADHESIVE MICROPARTICLES OF CURCUMIN FOR ENHANCED ORAL BIOAVAILABILITY</p> <p><u>D'Souza Anisha A.</u>, Devarajan PadmaV. Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology (Deemed University), Matunga, Mumbai- 400 019.</p>

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P 138	DEVELOPMENT OF LOW DENSITY MULTIPARTICULATE SUSTAINED FLOATING DRUG DELIVERY SYSTEM OF RANOLAZINE Shinde M. B*, Pokharkar V. B ¹ . *Department of Pharmaceutics, Sharadchandra Pawar College of Pharmacy, Otur, Pune 412 409 ¹ Department of Pharmaceutics, BVU'S, Poona College of Pharmacy, Pune 411 038.
P 139	FLOATING MICROPARTICLES BASED ORAL DELIVERY OF AN ANTI-DIABETIC DRUG Kumar Manoj ¹ and Dangi J.S. ¹ ¹ SLT Institute of Pharmaceutical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)-495009
P 140	FORMULATION AND OPTIMIZATION OF CONTROLLED RELEASE FLOATING MICROSPHERES OF VERAPAMIL HYDROCHLORIDE Shah M., Shah T., Amin A. Institute of Pharmacy, Nirma University. Sarkhej-Gandhinagar Highway, Ahmedabad – 382481. Gujarat, India.
P 141	FORMULATION AND OPTIMIZATION OF FLOATING MICROPARTICULATE SYSTEM OF OFLOXACIN FOR ORAL CONTROLLED DELIVERY SYSTEM Das Arijit, Das Sujit, Ghosh Amitava and Das Sudip. Dept. of Pharmaceutics, Himalayan pharmacy Institute, Majhitar, Sikkim-737136.
P 142	FORMULATION AND EVALUATION OF FLOATING CAPSULE CONTAINING SOLID LIPID MICROPARTICLES OF METFORMIN Ahmadi.M, Suresh.S Department of Pharmaceutics, Al-Ameen College of Pharmacy, Hosur Road, Bangalore-560027.
P 143	FORMULATION AND EVALUATION OF MUCOADHESIVE MICROSPHERES OF ZIPRASIDONE HCL FOR ORAL CONTROLLED RELEASE Kasat Kailas L., Kadam Vivek V., Pokharkar V. B. Department of Pharmaceutics, BVU, Poona College of Pharmacy, Erandwane, Pune-411038, India.
P 144	OPTIMIZATION OF THE CONCENTRATION OF HPMC AND CaCO ₃ FOR THE FORMULATION OF FLOATING MICROBEADS BY 3 ² FACTORIAL DESIGN Pani N.R., Bhaliya H.Z., Yadav R.R., Patel G.M. Rofel, Shri. G.M.Bilakhia College of Pharmacy, Vapi-3961
P 145	DESIGN AND DEVELOPMENT OF HYDROGEL MICROSPHERES FOR TARGETED DRUG DELIVERY TO THE COLON Ramteke K.H. ¹ , Bhattacharya A. ¹ . ¹ Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh, Assam.
P 146	FORMULATION AND CHARACTERIZATION OF LIPOSOMAL DRUG DELIVERY SYSTEM FOR ANTI HIV DRUG Doijad R. C. ¹ , Bhambere D. S. ² , Manvi F.V. ¹ , Ahirrao S. P. ² . ¹ Department of Pharmaceutics, KLES's College of Pharmacy, Belgaum, Karnataka, India ² MET Institute of Pharmacy, Bhujbal Knowledge City, Adgaon, Nashik, Maharashtra, India
P 147	FORMULATION AND EVALUATION OF CHITOSAN COATED LIPOSOMES OF METHOTREXATE FOR TARGETED DELIVERY R. SHETTY ¹ , PRABHAKAR PRABHU. Department of Pharmaceutics, NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
P 148	FORMULATION AND OPTIMIZATION OF PACLITAXEL CONTAINING PH-SENSITIVE LIPOSOMES BY 3-FACTOR, 3-LEVEL BOX BEHNKEN DESIGN Smita Rane, Bala Prabhakar School of Pharmacy and Technology Management, Shirpur Campus, NMIMS University, Shirpur, Maharashtra.

P 149	GEL CORED LIPOSOMES: ADVANCED NOVEL CARRIERS FOR VACCINE DELIVERY <u>Tiwari S.</u> , Vyas S.P. Department of Pharmaceutical Sciences, Drug Delivery Research Laboratory, Dr Hari Singh Gour Vishwavidyalaya, Sagar, MP, India
P 150	DESIGN AND EVALUATION OF SERRATIOPEPTIDASE NIOSOME FOR TOPICAL DRUG DELIVERY <u>Kanojiya S.S</u> ¹ , Shinde U. A ¹ ., Department of Pharmaceutics, Bombay College of Pharmacy, Santacruz (E), Mumbai-400098, India.
P 151	NANO PARTICULATE LIPID CARRIERS AS AN EFFECTIVE TOOL FOR TOPICAL DRUG DELIVERY <u>Desai A.A.</u> , Singh K.K. C. U. Shah college of Pharmacy, Santacruz (w), Mumbai-400059
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P 153	MEMBRANE PERMEATION CONTROLLED TRANSDERMAL PATCHES: FORMULATION AND EVALUATION <u>Gandhi, B.R.</u> ¹ , Mundada, A.S. ^{1,2} , Avari, J.G. ² 1. S.S.D.J. College of Pharmacy, Neminagar, Chandwad, Dist. Nasik. 423101 2. Department of Pharmaceutical Sciences, R.T.M. Nagpur University, Nagpur-33.
P 154	DEVELOPMENT AND EVALUATION OF IONTOPHORETIC DRUG DELIVERY SYSTEM FOR RIZATRIPTAN BENZOATE <u>Taur N.G.</u> , Lahoti S.R., Dehghan M.H.G., Khan A.R. Y.B. Chavan college of Pharmacy, Dr. Rafiq Zakaria campus, Rauzabagh, Aurangabad 431001(MS)
P 155	DEVELOPMENT & EVALUATION OF CURCUMIN LOADED POLY (VINYL ALCOHOL) BASED HYDROGELS <u>Jadhav H.B.</u> , Misra M., Shahiwala A. F. Department of Pharmaceutics, National Institute of Pharmaceutical Education & Research (NIPER), Thalje, Ahmedabad, Gujarat, India (380054)
P 156	IMPROVED PERMEATION OF ALENDRONATE SODIUM FROM GEL BASED IONTOPHORETIC DELIVERY SYSTEM <u>Rajendra Vivek B.</u> , Saifee Maria, Dehghan M.H.G. Y.B. Chavan College of Pharmacy, Dr. Rafiq Zakaria Campus, Rauza Bagh, Aurangabad-431001
P 157	RADIATION POLYMERIZED HYDROGEL FOR WOUND MANAGEMENT <u>Kale R.N.</u> , Bajaj A.N., Morde M. A. C.U.Shah College of Pharmacy, S.N.D.T University, Mumbai.
P 158	DEVELOPMENT AND CHARACTERISATION OF NOVEL KETOROLAC AND TIZANIDINE HCl GEL Pathade A.G., Avachat A. M. Department of Pharmaceutics, Sinhgad College of Pharmacy, S.No.44/1, Vadgaon (Bk), Off Sinhgad Road, Pune-411 041, Maharashtra, India
P 159	VESICULAR FORMULATION OF BRIMONIDINE TARTRATE AS AN OCULAR DRUG DELIVERY SYSTEM <u>P. PRABHU</u> ^{1*} , NM. HARISH, D. GANESH, K.VIJAYNARAYANA, RNCHARYULU Department of Pharmaceutics, NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore.
P 160	NOVEL POLYMERIC NANOPARTICLES OF BRIMONIDINE TARTRATE FOR OCULAR DELIVERY Singh K. H., Bajaj A. N., Shinde U. A.* C.U.Shah College of Pharmacy,S.N.D.T.Women's University, Santacruz (w), Mumbai 400049. * Bombay College of Pharmacy, Kalina, Santacruz (E), Mumbai 400098.

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