

# Development of a lyophilized plasmid/LPEI polyplex for a step closer from promising technology to application

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Invading target cells: multifunctional polymer conjugates as therapeutic nucleic acid carriers. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 275-286.	2.3	11
2	Development of Lyophilized Gemini Surfactant-Based Gene Delivery Systems: Influence of Lyophilization on the Structure, Activity and Stability of the Lipoplexes. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2012, 15, 548.	0.9	18
3	Nonviral Pulmonary Delivery of siRNA. <i>Accounts of Chemical Research</i> , 2012, 45, 961-970.	7.6	83
4	Optimization of the Fine Particle Fraction of a Lyophilized Lysozyme Formulation for Dry Powder Inhalation. <i>Pharmaceutical Research</i> , 2013, 30, 1698-1713.	1.7	16
5	Polyglycerol coatings of glass vials for protein resistance. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 756-764.	2.0	32
6	Poly(trehalose): Sugar-Coated Nanocomplexes Promote Stabilization and Effective Polyplex-Mediated siRNA Delivery. <i>Journal of the American Chemical Society</i> , 2013, 135, 15417-15424.	6.6	82
7	Assessment of Cholesterol-Derived <i>Ionic</i> Copolymers as Potential Vectors for Gene Delivery. <i>Biomacromolecules</i> , 2013, 14, 4135-4149.	2.6	7
8	Formulation development of lyophilized, long-term stable siRNA/oligoaminoamide polyplexes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 294-305.	2.0	19
9	Recent developments and perspectives on gene therapy using synthetic vectors. <i>Therapeutic Delivery</i> , 2013, 4, 95-113.	1.2	28
10	Lyophilization of Synthetic Gene Carriers. , 2013, 948, 133-147.		3
11	Nanotechnology for Nucleic Acid Delivery. <i>Methods in Molecular Biology</i> , 2013, , .	0.4	3
12	Recent advances and further challenges in lyophilization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 162-169.	2.0	135
13	Hypolipidemic effect of SR-BI gene delivery by combining cationic liposomal microbubbles and ultrasound in hypercholesterolemic rats. <i>Molecular Medicine Reports</i> , 2013, 7, 1965-1969.	1.1	3
14	Investigations on Polyplex Stability During the Freezing Step of Lyophilization Using Controlled Ice Nucleationâ€”The Importance of Residence Time in the Low-Viscosity Fluid State. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 929-946.	1.6	22
15	Formulating food protein-stabilized indomethacin nanosuspensions into pellets by fluid-bed coating technology: physical characterization, redispersibility, and dissolution. <i>International Journal of Nanomedicine</i> , 2013, 8, 3119.	3.3	23
16	Low Molecular Weight Chitosan (LMWC)-based Polyplexes for pDNA Delivery: From Bench to Bedside. <i>Polymers</i> , 2014, 6, 1727-1755.	2.0	46
17	Polyplex-releasing microneedles for enhanced cutaneous delivery of DNA vaccine. <i>Journal of Controlled Release</i> , 2014, 179, 11-17.	4.8	83
18	siRNA Delivery to the lung: What's new?. <i>Advanced Drug Delivery Reviews</i> , 2014, 75, 112-128.	6.6	113

#	ARTICLE	IF	CITATIONS
19	Nanoparticle-based technologies for retinal gene therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 95, 353-367.	2.0	76
20	Perspectives on the biotechnological production and potential applications of lactosucrose: A review. <i>Journal of Functional Foods</i> , 2015, 19, 74-90.	1.6	44
21	Enhanced osteogenic activity and anti-inflammatory properties of Lenti-BMP-2-loaded TiO <sub>2</sub> nanotube layers fabricated by lyophilization following trehalose addition. <i>International Journal of Nanomedicine</i> , 2016, 11, 429.	3.3	8
22	Development of New Formulation Dry Powder for Pulmonary Delivery Using Amino Acids to Improve Stability. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 394-400.	0.6	11
23	Polymeric Nanoparticles as siRNA Drug Delivery System for Cancer Therapy: The Long Road to Therapeutic Efficiency. , 2016, , 503-540.		5
24	Preparation of Concentrated Chitosan/DNA Nanoparticle Formulations by Lyophilization for Gene Delivery at Clinically Relevant Dosages. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 88-96.	1.6	27
25	Inhaled gene delivery: a formulation and delivery approach. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 319-330.	2.4	33
26	Aerosol Delivery of siRNA to the Lungs. Part 2: Nanocarrier-based Delivery Systems. <i>KONA Powder and Particle Journal</i> , 2017, 34, 44-69.	0.9	19
27	Excipients for the lyoprotection of MAPKAP kinase 2 inhibitory peptide nano-polyplexes. <i>Journal of Controlled Release</i> , 2018, 282, 110-119.	4.8	10
28	Rapid formulation of redox-responsive oligo- $\beta$ -aminoester polyplexes with siRNA via jet printing. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6550-6558.	2.9	6
29	Design of Oligonucleotide Carriers: Importance of Polyamine Chain Length. <i>Polymers</i> , 2018, 10, 1297.	2.0	3
30	Novel peptide-dendrimer/lipid/oligonucleotide ternary complexes for efficient cellular uptake and improved splice-switching activity. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 132, 29-40.	2.0	17
31	Dose reduction of bone morphogenetic protein-2 for bone regeneration using a delivery system based on lyophilization with trehalose. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 403-414.	3.3	17
32	Development of a Parenteral Formulation of NTS-Polyplex Nanoparticles for Clinical Purpose. <i>Pharmaceutics</i> , 2018, 10, 5.	2.0	6
35	Lyophilization of Synthetic Gene Carriers. <i>Methods in Molecular Biology</i> , 2019, 1943, 211-225.	0.4	2
36	Sugar and Polymer Excipients Enhance Uptake and Splice-Switching Activity of Peptide-Dendrimer/Lipid/Oligonucleotide Formulations. <i>Pharmaceutics</i> , 2019, 11, 666.	2.0	10
37	Excipients for Room Temperature Stable Freeze-Dried Monoclonal Antibody Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 807-817.	1.6	40
38	A proof of concept gene-activated titanium surface for oral implantology applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 622-632.	1.3	11

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39	Fabrication of efavirenz loaded nano-formulation using quality by design (QbD) based approach: Exploring characterizations and in vivo safety. Journal of Drug Delivery Science and Technology, 2020, 56, 101545.	1.4	12
40	Lyophilized Autologous Serum Eyedrops: Experimental and Comparative Study. American Journal of Ophthalmology, 2020, 213, 260-266.	1.7	10
41	Polyprenol-Based Lipofecting Agents for In Vivo Delivery of Therapeutic DNA to Treat Hypertensive Rats. Biochemical Genetics, 2021, 59, 62-82.	0.8	4
42	Strategic advancements and multimodal applications of biofilm therapy. Expert Opinion on Biological Therapy, 2021, 21, 395-412.	1.4	4
43	Enzymatic Production of Lactosucrose by Levansucrase, Î²-Fructofuranosidase, and Î²-Galactosidase. , 2021, , 125-146.		0
44	Effects of lyoprotectants on long-term stability and transfection efficacy of lyophilized poly(lactide-co-glycolide)-graft-polyethylenimine/plasmid DNA polyplexes. Nanomedicine, 2021, 16, 1269-1280.	1.7	1
45	Submicro- and nanoplastics: How much can be expected in water bodies?. Environmental Pollution, 2021, 278, 116910.	3.7	15
46	Enhancing the Stabilization Potential of Lyophilization for Extracellular Vesicles. Advanced Healthcare Materials, 2022, 11, e2100538.	3.9	42
47	Freeze-drying of nanoparticles: How to overcome colloidal instability by formulation and process optimization. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 165, 345-360.	2.0	67
48	Design of targeted delivery of DNA microplexes on insulin receptors for alveolar cancer. Journal of Drug Delivery Science and Technology, 2021, 65, 102754.	1.4	5
49	Trehalose Maintains Bioactivity and Promotes Sustained Release of BMP-2 from Lyophilized CDHA Scaffolds for Enhanced Osteogenesis In Vitro and In Vivo. PLoS ONE, 2013, 8, e54645.	1.1	29
50	Improving DNA Vaccine Performance Through Vector Design. Current Gene Therapy, 2014, 14, 170-189.	0.9	62
51	Application Prospects for Synthetic Nanoparticles in Optogenetic Retinal Prosthetics. Journal of Evolutionary Biochemistry and Physiology, 2021, 57, 1333-1350.	0.2	1
52	Galacto-Oligosaccharides and Other Products Derived from Lactose. , 2022, , 125-228.		0
53	Application of Lyophilized Gene-Delivery Formulations to Dental Implant Surfaces: Non-Cariogenic Lyoprotectant Preserves Transfection Activity of Polyplexes Long-Term. Journal of Pharmaceutical Sciences, 2023, 112, 83-90.	1.6	1