

## SYNTHESIS AND APPLICATIONS OF POLYACRYLAMIDE GRAFTED AGAR

Download PDF Ebook and Read Online Synthesis And Applications Of Polyacrylamide Grafted Agar . Get **Synthesis And Applications Of Polyacrylamide Grafted Agar Synthesis and applications of polyacrylamide grafted agar**

Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA 1. Introduction. Inflammatory bowel diseases including irritable bowel syndrome, ulcerative colitis and Crohn's disease 2. Materials and methods. Agar was supplied by CDH, New Delhi, India.

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### **Polyacrylamide grafted Agar Synthesis and applications of**

Polyacrylamide grafted Agar was synthesized by conventional technique and microwave assisted technique. Higher the percentage grafting of the graft copolymer, higher is its intrinsic viscosity. The graft copolymer proved superior flocculant in kaolin suspension and in waste water. The optimized flocculant dose as found in Kaolin suspension was 0.75 ppm.

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### **Synthesis and Applications of Polyacrylamide grafted Agar**

Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment

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### **Polyacrylamide grafted Agar Synthesis and applications of**

Polyacrylamide grafted Agar (Ag-g-PAM) has been successfully synthesized by conventional method and microwave assisted method. The former method employs ceric ammonium nitrate (CAN) as the free

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### **Polyacrylamide grafted Agar Synthesis and applications of**

Polyacrylamide grafted Agar (Ag-g-PAM) has been successfully synthesized by conventional method and microwave assisted method. The former method employs ceric ammonium nitrate (CAN) as the free radical initiator while the latter uses the combination of ceric ammonium nitrate (CAN) and microwave irradiation.

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### **Synthesis characterization and applications of**

S. Mishra, G. Sen, U. Rani, S. Sinha Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment International Journal of Biological Macromolecules, 49 (2011), pp. 591-598

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### **Microwave assisted synthesis of polyacrylamide grafted**

(PDF) Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as

flocculant for wastewater treatment | sumit mishra - Academia.edu Academia.edu is a platform for academics to share research papers.

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### **Synthesis and Applications of Poly 2**

Synthesis and Applications of Polyacrylamide grafted Agar as a Matrix for Controlled Drug Release of 5-ASA.

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### **Microwave assisted synthesis of polyacrylamide grafted**

Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM), using ceric ammonium nitrate (CAN) as free radical initiator. 1 g of agar was dissolved in 40 ml distilled water. Desired amount of acrylamide was dissolved in 10 ml water and was added to the agar solution.

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### **Microwave assisted synthesis of polyacrylamide grafted**

Synthesis of polyacrylamide (PAM) grafted soya peptone was performed by the microwave assisted method using ceric ammonium nitrate (CAN) as free radical initiator. The synthesis was optimized by

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### **PDF Synthesis characterization and application of**

Synthesis, characterization and application of polyacrylamide grafted bioflocculant Article (PDF Available) in Physics and Chemistry of the Earth Parts A/B/C 115:102821 November 2019 with 47 Reads

<http://home.schoolnutritionandfitness.com/-PDF--Synthesis--characterization-and-application-of-.pdf>

### **Synthesis characterization and application of**

Grafted bioflocculants tend to have excellent wastewater remediation capabilities. The aim of this research was to synthesize, characterize and apply polyacrylamide grafted bioflocculant to wastewater treatment. Bioflocculant (TMT 1) produced by *Bacillus pumilus* JX860616 was grafted with acrylamide chains using a microwave initiated method.

<http://home.schoolnutritionandfitness.com/Synthesis--characterization-and-application-of-.pdf>

### **Synthesis characterization and application of novel**

Sumit Mishra, Koustav Kundu, Synthesis, characterization and applications of polyacrylamide grafted fenugreek gum (FG-g-PAM) as flocculant: Microwave vs thermal synthesis approach, International Journal of Biological Macromolecules, 10.1016/j.ijbiomac.2019.09.033, (2019).

<http://home.schoolnutritionandfitness.com/Synthesis--characterization-and-application-of-novel-.pdf>

### **Microwave assisted synthesis of poly 2**

Poly(2-hydroxyethylmethacrylate) chains were grafted onto the backbone of agar using a microwave assisted method involving a combination of microwave irradiation and ceric ammonium nitrate to initiate the grafting reaction. The synthesized graft copolymers were characterized by intrinsic viscosity measurements, Fourier transform infrared spectroscopy, elemental analysis (C, H, N, O and S) and

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### **Synthesis and characterization of polyacrylamide grafted**

Synthesis and characterization of polyacrylamide grafted copolymers of Kundoor mucilage. Anuradha Mishra. Corresponding Author. E-mail address: anuradha\_mishra@rediffmail.com. Department of Chemistry, University Institute of Engineering and Technology, CSJM University, Kanpur 208 024, India.

<http://home.schoolnutritionandfitness.com/Synthesis-and-characterization-of-polyacrylamide-grafted-.pdf>

#### **Microwave initiated synthesis of polyacrylamide grafted**

Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment. Mishra S , Sen G , Rani GU , Sinha S Int J Biol Macromol , 49(4):591-598, 24 Jun 2011

<http://home.schoolnutritionandfitness.com/Microwave-initiated-synthesis-of-polyacrylamide-grafted-.pdf>

#### **Carboxymethyl tamarind Synthesis characterization and**

G. Usha Rani, Ananda Kumar Konreddy, Sumit Mishra and Gautam Sen, Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA, International Journal of Biological Macromolecules, 65, (375), (2014).

<http://home.schoolnutritionandfitness.com/Carboxymethyl-tamarind--Synthesis--characterization-and-.pdf>

#### **Graft polymerization of acrylic acid onto starch using**

Sumit Mishra, Gautam Sen, G. Usha Rani and Sweta Sinha, Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment, International Journal of Biological Macromolecules, 49, 4, (591), (2011).

<http://home.schoolnutritionandfitness.com/Graft-polymerization-of-acrylic-acid-onto-starch-using-.pdf>

#### **Microwave assisted synthesis of poly 2**

Microwave assisted synthesis of poly(2-hydroxyethylmethacrylate) grafted agar (Ag-g-P(HEMA)) and its application as a flocculant for wastewater treatment Gautam SEN, G. Usha RANI( ), Sumit MISHRA Department of Applied Chemistry, Birla Institute of Technology, Mesra, Ranchi 835 215, India

<http://home.schoolnutritionandfitness.com/Microwave-assisted-synthesis-of-poly-2-.pdf>

#### **Publications**

G.Usha Rani, Ananda Kumar Konreddy, Sumit Mishra, Gautam Sen; Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled release of 5-ASA, International Journal of Biological Macromolecules, Vol. 65, pp 375-382(2014). (Publisher: Elsevier).

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#### **Microwave assisted synthesis of polyacrylamide grafted**

Microwave assisted synthesis of polyacrylamide grafted starch (St-g-PAM) and its applicability as flocculant for water treatment. Mishra S(1), Mukul A, Sen G, Jha U. Author information: (1)Department of Applied Chemistry, Birla Institute of Technology, Mesra, Ranchi 835 215, Jharkhand, India.

<http://home.schoolnutritionandfitness.com/Microwave-assisted-synthesis-of-polyacrylamide-grafted-.pdf>

#### **10 1016 j ijbiomac 2014 01 034 10 1016 j DeepDyve**

The percentage grafting of this microwave assisted synthesized Ag-g-PAM was evaluated as % grafting = wt. of graft copolymer / wt. of polysaccharide \* 100 The proposed mechanism of synthesis has been depicted in Scheme 1 and the synthesis details of various grades of the graft copolymer have been shown in Table 1 .

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<http://home.schoolnutritionandfitness.com/10-1016-j-ijbiomac-2014-01-034-10-1016-j---DeepDyve.pdf>

#### **Colon targeted drug release studies of 5 ASA using a novel**

Rani U, Konreddy AK, Mishra S, Sen G (2014) Synthesis and applications of polyacryl amide grafted agar as a matrix for controlled drug release of 5-ASA. Int J Biol Macromol 65:375 382. Article Google Scholar

<http://home.schoolnutritionandfitness.com/Colon-targeted-drug-release-studies-of-5-ASA-using-a-novel-.pdf>

### **Microwave initiated synthesis of polyacrylamide grafted**

Microwave initiated synthesis of polyacrylamide grafted guar gum (GG-g-PAM) Characterizations and application as matrix for controlled release of 5-amino salicylic acid

<http://home.schoolnutritionandfitness.com/Microwave-initiated-synthesis-of-polyacrylamide-grafted-.pdf>

### **Synthesis characterization and anti microbial activity**

Rani, GU, Konreddy, AK, Mishra, S. Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA. Int J Biol Macromol 2014; 65: 375 382. Google Scholar | Crossref | Medline

<http://home.schoolnutritionandfitness.com/Synthesis--characterization--and-anti-microbial-activity--.pdf>

### **Research Publications**

G.Usha Rani, Ananda Kumar Konreddy, Sumit Mishra\*, Gautam Sen; Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled release of 5-ASA, International Journal of Biological Macromolecules, Vol. 65, pp 375 (2014).

<http://home.schoolnutritionandfitness.com/Research-Publications.pdf>

### **Controlled drug release of 5 amino salicylic acid by poly**

Rani G U, Konreddy A K, Mishra S, Sen G. Synthesis and applications of polyacrylamide grafted agar as a matrix for controlled drug release of 5-ASA. International Journal of Biological Macromolecules, 2014, 65: 375 382 24

<http://home.schoolnutritionandfitness.com/Controlled-drug-release-of-5-amino-salicylic-acid-by-poly--.pdf>

### **Synthesis and Characteristic of Xylan grafted**

Recently, more attentions have been focused on the exploration of hemicelluloses in the paper industry. In this work, xylan-grafted-polyacrylamide (xylan-g-PAM) biopolymers were synthesized by the graft copolymerization of xylan with acrylamide, and their interaction with fibers was also investigated to improve waste newspaper pulp properties with or without cationic fiber fines.

<http://home.schoolnutritionandfitness.com/Synthesis-and-Characteristic-of-Xylan-grafted--.pdf>

### **Personal Information Science Publishing Group**

Sumit Mishra, Gautam Sen, G.Usha Rani, Sweta Sinha, Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment , International Journal of Biological Macromolecules, 2011, 49:591-598.

<http://home.schoolnutritionandfitness.com/Personal-Information--Science-Publishing-Group.pdf>

### **10 1016 j carbpol 2012 05 069 10 1016 j DeepDyve**

The wastewater was collected from the main sewage system of Birla Institute of Technology, Mesra (BIT-Mesra) community. 2.2 Synthesis 2.2.1 Synthesis of polyacrylamide grafted agar by conventional method (using ceric ammonium nitrate (CAN) as the free radical initiator)[Ag-g-PAM(C)] Grafting reaction was carried out by ceric ion (Ce 4

<http://home.schoolnutritionandfitness.com/10-1016-j-carbpol-2012-05-069-10-1016-j---DeepDyve.pdf>

### **Sponsored Projects**

Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM), characterizations and applications as flocculant for waste water treatment. Dr Sumit Mishra. Dr Gautam Sen. UGC. 1.03.11. 5.97 Lacs. 28.2.14

<http://home.schoolnutritionandfitness.com/Sponsored-Projects.pdf>

### **Synthesis characterization and evaluation of**

Synthesis of the graft polymer nanocomposite. The gelatinized starch (St) graft polyacrylamide sodium montmorillonite nanocomposite (PAAm-g-St/MMT) was synthesized by the free radical polymerization technique in an inert atmosphere of nitrogen using potassium persulphate (KPS) as an initiator (Ghorai et al. 2013; Mansoori et al. 2010). At first

<http://home.schoolnutritionandfitness.com/Synthesis--characterization-and-evaluation-of--.pdf>

#### **Book Chapters Published**

Pinki Pal, Jay Prakash Pandey, Gautam Sen; Synthesis and application as programmable water soluble adhesive of polyacrylamide grafted gum tragacanth (GT-g-PAM) (Chapter No. 5) - Biopolymer Grafting : Application, Editor: Vijay Kumar Thakur (2017), Publisher: Elsevier, ISBN: 9780128104620.

Priti Rani, Pinki Pal, Sumit Mishra, Jay Prakash Pandey, Gautam Sen; Grafted Cinnamic Acid: A Novel

<http://home.schoolnutritionandfitness.com/Book-Chapters-Published.pdf>

#### **Controlled drug release of 5 amino salicylic acid by poly**

The utilization of poly (2-hydroxyethylmethacrylate) grafted agar (Ag-g-P(HEMA)) as a matrix for the controlled release of 5-aminosalicylic acid was investigated. Grafted copolymers of 2-hydroxyethylmethacrylate (HEMA) monomers on agar were synthesized by microwave assisted method. In vitro drug release studies were performed at pH values of 2 and 7 in order to investigate the possibility of

<http://home.schoolnutritionandfitness.com/Controlled-drug-release-of-5-amino-salicylic-acid-by-poly--.pdf>

#### **Grandhe Usharani Cuddapah Area India Professional**

Polyacrylamide grafted agar: Synthesis and applications of conventional and microwave assisted technique carbohydrate polymers 2012. Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment , International Journal of

<http://home.schoolnutritionandfitness.com/Grandhe-Usharani-Cuddapah-Area--India-Professional--.pdf>

#### **Microwave assisted synthesis of polyacrylamide grafted**

Microwave assisted synthesis of polyacrylamide grafted dextrin (Dxt-g-PAM): Development and application of a novel polymeric flocculant. Pal S(1), Nasim T, Patra A, Ghosh S, Panda AB. Author information: (1)Polymer Chemistry Laboratory, Department of Applied Chemistry, Indian School of Mines, Dhanbad 826 004, Jharkhand, India. [sagarpal1@hotmail.com](mailto:sagarpal1@hotmail.com)

<http://home.schoolnutritionandfitness.com/Microwave-assisted-synthesis-of-polyacrylamide-grafted--.pdf>

#### **Synthesis characterization and application of novel**

Synthesis, characterization and application of novel polyacrylamide grafted barley In barley, the total carbohydrate content is 80.2% and remaining components are protein and fats. The known component of dietary fiber in barley is glucans, which is insoluble in water. Glucans is a polysaccharide of d glucose monomers linked by

<http://home.schoolnutritionandfitness.com/Synthesis--characterization-and-application-of-novel--.pdf>

#### **Dr Sumit Mishra**

Sumit Mishra, Gautam Sen , G. Usha Rani, Sweta Sinha, Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment , International Journal of Biological Macromolecules, Vol. 49 pp 591-598, (2011). (Publisher: Elsevier) 5.

<http://home.schoolnutritionandfitness.com/Dr--Sumit-Mishra.pdf>

#### **Graft Copolymerization of Acrylonitrile and Ethyl**

Polyacrylamide grafted Agar: Synthesis and applications of conventional and microwave assisted

technique. Carbohydrate Polymers 2012, 90, 784-791. DOI: 10.1016/j.carbpol.2012.05.069. Jinlian Hu, Harper Meng, Guoqiang Li, Samuel I Ibekwe. A review of stimuli-responsive polymers for smart textile applications.

<http://home.schoolnutritionandfitness.com/Graft-Copolymerization-of-Acrylonitrile-and-Ethyl--.pdf>

#### **Controlled drug release behavior of 5-aminosalicylic acid**

In the present investigation, we have evaluated the in vitro drug release of 5-aminosalicylic acid (5-ASA) using polyacrylamide grafted oatmeal (OAT-g-PAM). The graft co-polymer was synthesized by following free radical co-polymerization pathway using acrylamide as a monomer and ceric ammonium nitrate as a free radical initiator in the presence of microwave.

<http://home.schoolnutritionandfitness.com/Controlled-drug-release-behavior-of-5-aminosalicylic-acid--.pdf>

#### **Graft Copolymerization of Acrylonitrile and Ethyl**

Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant for wastewater treatment. International Journal of Biological Macromolecules 2011, 49 (4) , 591-598. DOI: 10.1016/j.ijbiomac.2011.06.015.

<http://home.schoolnutritionandfitness.com/Graft-Copolymerization-of-Acrylonitrile-and-Ethyl--.pdf>

#### **Publications in Peer Reviewed Journals Dr Sumit Mishra**

Sumit Mishra, Gautam Sen\*, Usha Rani, Sweta Sinha; Microwave assisted synthesis of polyacrylamide grafted agar (Ag-g-PAM) and its application as flocculant. International Journal of Biological Macromolecules, Vol. 49, pp. 591 (2011).

<http://home.schoolnutritionandfitness.com/Publications-in-Peer-Reviewed-Journals-Dr-Sumit-Mishra.pdf>

#### **Development and Characterization of Photoinduced**

There is also a positive difference band at 1692 cm<sup>-1</sup> (amide I), as shown in Figure 3(b), confirming the presence of the grafted acrylamide chains. An amide II mode is observed as a weak broad band at around 1599 cm<sup>-1</sup>, while a C-N stretching mode (amide III) appears at 1417 cm<sup>-1</sup> in the subtracted spectra of the grafted sample. FTIR spectra recorded in ATR mode in the C-H stretching

<http://home.schoolnutritionandfitness.com/Development-and-Characterization-of-Photoinduced--.pdf>

#### **Microwave initiated synthesis of polyacrylamide grafted**

1. Int J Biol Macromol. 2010 Aug 1;47(2):164-70. doi: 10.1016/j.ijbiomac.2010.05.004. Epub 2010 May 13. Microwave initiated synthesis of polyacrylamide grafted guar gum (GG-g-PAM)-Characterizations and application as matrix for controlled release of 5-amino salicylic acid.

<http://home.schoolnutritionandfitness.com/Microwave-initiated-synthesis-of-polyacrylamide-grafted--.pdf>

#### **Synthesis Characterization and Application as a Chromium**

The amine-modified polyacrylamide-grafted coconut coir pith carrying NH<sub>3</sub><sup>+</sup>Cl<sup>-</sup> functional group at the chain end (PGCP NH<sub>3</sub><sup>+</sup>Cl<sup>-</sup>) was investigated as an adsorbent for its possible application for the removal of chromium(VI) from aqueous solution and wastewater. The infrared spectroscopy results were used to confirm the graft copolymer formation and NH<sub>3</sub><sup>+</sup>Cl<sup>-</sup> functional group.

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#### **PDF Preparation of a New Dry Strength Agent via Graft**

With the ever-increasing usage of recycled fibers, dry-strength agents play an increasingly important role in the papermaking industry. In this study, a new kind of dry-strength agent (CMS-g-PAM) was developed via grafting polyacrylamide onto carboxymethyl starch (CMS). Effects of the operation conditions, including the CMS-g-PAM dosage, polyaluminium chloride (PAC) dosage, and pH value of

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#### **Development and Characterization of Photoinduced**

Polyacrylamide (PAM) is a nontoxic, low cost polymer produced from the radical polymerization of its vinyl monomer. During the synthesis, N,N'-methylenebisacrylamide can be applied to partially cross-link the polymer chains.

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#### **Microwave assisted synthesis of polyacrylamide grafted**

Polyacrylamide grafted starch (St-g-PAM) was made by a novel method of synthesis, involving combination of microwave radiation and a chemical free radical initiator (ceric ammonium nitrate) to initiate grafting reaction. This method (microwave assisted synthesis) is quick, highly reliable, reproduci

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#### **Article Semi Natural Superabsorbents Based on Starch g**

Synthesis and Application El bieta Czarnecka 1,2,\* and Jacek Nowaczyk 1 1 Chair of Physical Chemistry and Physicochemistry of Polymers, Faculty of Chemistry, Nicolaus Copernicus University in Toru , 7 Gagarina Street, 87-100 Toru , Poland; jacek.nowaczyk@umk.pl 2 PlasticaSp. z o.o., Frydrychowo 55, 87-410 Kowalewo Pomorskie, Poland

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