

Title (en)

COMPOSITION FOR THE TREATMENT OF GASTROESOPHAGEAL REFLUX COMPRISING HYALURONIC ACID

Title (de)

ZUSAMMENSETZUNG ZUR BEHANDLUNG VON GASTROÖSOPHAGEALEM REFLUX MIT HYALURONSÄURE

Title (fr)

COMPOSITION POUR LE TRAITEMENT DU REFLUX GASTRO-OESOPHAGIEN COMPRENANT DE L'ACIDE HYALURONIQUE

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Application

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- IB 2017057293 W 20171121

Abstract (en)

[origin: WO2018100469A1] The present invention relates to a composition comprising hyaluronic acid, a natural molecule, and thickening agents. Said composition has been demonstrated to effectively counteract the discomfort caused by gastroesophageal reflux, preventing said reflux and alleviating the effects thereof on the mucosa. Indeed, the composition can also play an active role in the regeneration of tissue damaged by previous reflux.

IPC 8 full level

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3. **A61K 31/726** + **A61K 2300/00**

Citation (search report)

- [I] WO 2014198605 A1 20141218 - NESTEC SA [CH]
- [I] WO 0067799 A1 20001116 - RECKITT & COLMANN PROD LTD [GB], et al
- [I] WO 2004073597 A2 20040902 - RECKITT BENCKISER HEALTHCARE [GB], et al
- [A] US 2014079814 A1 20140320 - GUROL ISMAIL [US], et al
- [I] WO 9963986 A1 19991216 - RECKITT & COLMANN PROD LTD [GB], et al
- [X] US 2006040894 A1 20060223 - HUNTER WILLIAM L [CA], et al
- [A] WO 2016065083 A1 20160428 - SYMIC BIOMEDICAL INC [US]
- [I] H.K BATCHELOR ET AL: "An in vitro mucosal model for prediction of the bioadhesion of alginate solutions to the oesophagus", INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol. 238, no. 1-2, 1 May 2002 (2002-05-01), AMSTERDAM, NL, pages 123 - 132, XP055390591, ISSN: 0378-5173, DOI: 10.1016/S0378-5173(02)00062-5
- [A] CEVIK MUHAZET ET AL: "Preliminary study of efficacy of hyaluronic acid on caustic esophageal burns in an experimental rat model", JOURNAL OF PEDIATRIC SURGERY, W. B. SAUNDERS COMPANY, US, vol. 48, no. 4, 12 April 2013 (2013-04-12), pages 716 - 723, XP028547632, ISSN: 0022-3468, DOI: 10.1016/J.JPEDIURG.2012.08.015
- [X] SHALU SURI ET AL: "Cell-Laden Hydrogel Constructs of Hyaluronic Acid, Collagen, and Laminin for Neural Tissue Engineering", TISSUE ENGINEERING PART A, vol. 16, no. 5, 1 May 2010 (2010-05-01), US, pages 1703 - 1716, XP055390775, ISSN: 1937-3341, DOI: 10.1089/ten.tea.2009.0381
- [I] B PALMIERI ET AL: "Fixed combination of hyaluronic acid and chondroitin-sulphate oral formulation in a randomized double blind, placebo controlled study for the treatment of symptoms in patients with non-erosive gastroesophageal reflux.", EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES, 31 December 2013 (2013-12-31), XP055372748, Retrieved from the Internet <URL:http://www.europeanreview.org/wp/wp-content/uploads/3272-3278.pdf> [retrieved on 20170515]

Citation (examination)

- KHAN SY ET AL: "Studies on Rheological Behavior of Xanthan Gum Solutions in Presence of Additives Studies on Rheological Behavior of Xanthan Gum Solutions in Presence of Additives", PETROLEUM & PETROCHEMICAL ENGINEERING JOURNAL, 13 August 2018 (2018-08-13), XP055961501, Retrieved from the Internet <URL:https://medwinpublishers.com/PPEJ/PPEJ16000165.pdf> [retrieved on 20220915]
- RAMAKRISHNA CHETANA ET AL: "Rheological behavior of syrups containing sugar substitutes", EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol. 218, no. 4, 1 March 2004 (2004-03-01), pages 345 - 348, XP055086963, ISSN: 1438-2377, DOI: 10.1007/s00217-004-0876-7
- SNETKOV PETR ET AL: "Hyaluronic Acid: The Influence of Molecular Weight on Structural, Physical, Physico-Chemical, and Degradable Properties of Biopolymer", POLYMERS, vol. 12, no. 8, 11 October 2020 (2020-10-11), CH, pages 1800, XP055961734, ISSN: 2073-4360, Retrieved from the Internet <URL:https://www.ncbi.nlm.nih.gov/pmc/ivip/2073-4360/12/8/1800> DOI: 10.3390/polym12081800
- YANG XIAO HONG ET AL: "Viscosity properties of sodium carboxymethylcellulose solutions", CELLULOSE, SPRINGER NETHERLANDS, NETHERLANDS, vol. 14, no. 5, 29 June 2007 (2007-06-29), pages 409 - 417, XP037829528, ISSN: 0969-0239, [retrieved on 20070629], DOI: 10.1007/S10570-007-9137-9
- CASAS J?A ET AL: "Viscosity of guar gum and xanthan/guar gum mixture solutions", JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol. 80, no. 12, 1 January 2000 (2000-01-01), GB, pages 1722 - 1727, XP055961743, ISSN: 0022-5142, DOI: 10.1002/1097-0010(20000915)80:12<1722::AID-JSFA708>3.0.CO;2-X
- KC KIRAN ET AL: "In Vitro Model for Studying Esophageal Epithelial Differentiation and Allergic Inflammatory Responses Identifies Keratin Involvement in Eosinophilic Esophagitis", PLOS ONE, vol. 10, no. 6, 3 June 2015 (2015-06-03), US, pages e0127755, XP093137265, ISSN: 1932-6203, DOI: 10.1371/journal.pone.0127755
- See also references of WO 2018100469A1

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