Publication number:

0 083 325

(12)

EUROPEAN PATENT APPLICATION

Application number: 82850235.1

(f) Int. Cl.³: **A 23 L 1/236,** C 13 K 1/00

Date of filing: 18.11.82

Priority: 28.12.81 US 334524 22.10.82 SE 8206009 Applicant: Aria, ekonomisk förening, Dalagatan 3, S-105 46 Stockholm (SE)

Date of publication of application: 06.07.83 **Bulletin 83/27**

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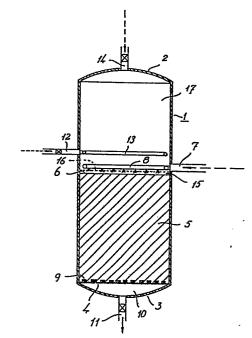
Designated Contracting States: AT BE CH DE FR GB IT LINL

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Date of deferred publication of search report: 28.11.84 Bulletin 84/48

Process for the manufacture of a sweetener based on milk and a sweetener manufactured according to the process.

(57) A process for the manufacture of a sweetener based on milk, in which lactose is hydrolysed while being transformed to glucose and galactose by means of a strongly acidic cation exchanger having a cross linking degree of between 5 and 10% in a parallel flow of a lactose solution through a fixed bed of the strongly acidic cation exchanger, whereby the hydrolysis is run to a hydrolysing degree of 40-100% at a temperature of 80-150 °C or preferably 90-120 °C and with a flow cycle speed of between 2 and 0,5 bed volumes per hour corresponding a cycle speed of transforming lactose to glucose and galactose of between 0,5 and 2 hours, whereupon the glucose-galactose product thereby obtained is cooled to a temperature of 10-20 °C and is withdrawn for direct use, for being temporarily stored or for being further treated. The dry matter content of the treated lactose is kept at 40 to at least 80% or preferably 50 to 60%. The invention also relates to a sweetener manufactured according to the process.



EUROPEAN SEARCH REPORT

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EP 82 85 0235

DOCUMENTS CONSIDERED TO BE RELEVANT						
Category		th indication, where appropria vant passages	te,	Relevant to claim	CLASSIFICAT APPLICATION	
Y	GB-A-1 539 278 FOODS) * Page 1, lines			1-14	A 23 I C 13 F	
Y	THE AUSTRALIAN TECHNOLOGY, Jun 53-59; R.D. Mac "Heterogeneous hydrolysis of 1 cation exchange * Page 56; tabl	e 1979, pages BEAN et al.: acid catalysed actose with resins"		1-14		
A	CHEMICAL ABSTRA 1976, page 393, Columbus, Ohio, HAGGETT: "The a hydrolysis of 1 cation exchange DAIRY SCI. TECH 176-179	no. 175740y, USA; T.O.R. cid catalyzed actose using a resin" & N.Z.	J.		TECHNICAI SEARCHED	
A	US-A-4 266 027 MULLER)	 (WERNER C.			A 23 L C 13 K	
A	US-A-2 592 509 BLOCK)	(RICHARD J.				
						
	The present search report has b	een drawn up for all claims				
	Place of search THE HAGUE	Date of completion of t 20-08-19		LENSEN	Examiner H.W.M.	
Y : par doo A : tec O : nor	CATEGORY OF CITED DOCL rticularly relevant if taken alone rticularly relevant if combined w cument of the same category hnological background n-written disclosure ermediate document	ith another D:	earlier patent of after the filing document cited document cited	locument, be date d in the appl d for other re	ing the invention to the invention of the invention easons the invention of the invention o	ı, or