

INFORME DE BÚSQUEDA DE PATENTES				
N° de solicitud: NC2017/0006191				
CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)				
PALABRAS CLAVE UTILIZADAS		(LACTASE OR GALACTOSIDASE) AND (Kluyveromyces lactis or K lactis OR K. lactis) AND (DAIRY PRODUCTS)		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP:		
		CPC:		
DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)				
Informes/Base de datos	N° de solicitud/ Autor**	Fecha de Publicación/ Presentación (DD/MM/AAAA)	Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias)	Categorías especiales de los documentos citados***
SIPI (Obligatoria)				
ISA/IPEA (****) WIPO	WO2013168438 O'Connell <i>et al</i>	14/11/2013 06/10/2	1 a 9 1 a 9	Y Y
EPO	WO2010092057 Heidtmann Dicson <i>et al</i> Arijit <i>et al</i> Becerra <i>et al</i>	19/08/2010 01/03/2012 01/01/1979 08/08/2013 15/05/1998	1 a 9 -- -- -- 1 a 9	Y Y Y Y Y
JPO				
KIPO				
Patbase*				
EPOQUE NET*				
Google Patents				
*** Categorías especiales de documentos citados:				
“A” documento que define el estado general de la técnica no considerado como particularmente relevante. “E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior. “P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.		“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado. “Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.		
**** Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.				

Literatura no patente **Se incluye entre otros, toda la referencia de la literatura no patente.	Shane O'Connell & Gary Walsh. A novel acid-stable, acid-active β -galactosidase potentially suited to the alleviation of lactose intolerance. Appl Microbiol Biotechnol (2010) 86:517-524 M. Becerra, E. Cerdán, M.I. González Siso. Dealing with different methods for Kluyveromyces lactis β -galactosidase purification Biological Procedures (1998) 1:48-58
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Fecha del reporte de búsqueda:	1 de mayo de 2018
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#	Search query	Results	
5	3 and 4	19	\
4	FT=(dairy product*)	26057	\
3	1 and 2	79	\
2	TAC=((Kluyveromyces lactis) or (K lactis) or (K. lactis))	816	\
1	TAC=((lactase) or (galactosidase))	7198	\

Cualquier país ▾ Cualquier idioma ▾ Antes de 5 de dic. de 2014 ▾ Ordenados por importancia

Artículos académicos para **kluyveromyces lactis lactase kda optimum**

... **lactose** using β -galactosidase from **Kluyveromyces** ... - **Chockchaisawasdee** - Mencionado por 118
... and characterization of **Kluyveromyces lactis** β - ... - **Kim** - Mencionado por 52
Purification and characterization of a recombinant β - ... - **Hung** - Mencionado por 111

Expression and characterization of **Kluyveromyces lactis** β ...

<https://link.springer.com/article/10.1023/A:1026092029785> ▾ Traducir esta página

de CS Kim - 2003 - Citado por 51 - Artículos relacionados

15 oct. 2003 - **Kluyveromyces lactis** β -galactosidase gene, LAC4, was expressed in ... The expressed protein was multimeric with a subunit molecular mass of 118 kDa. ... The activity was **optimal** at 37 and 40 °C for o-nitrophenyl- β -D-galactopyranoside (oNPG) and **lactose**, ... β -galactosidase expression **Kluyveromyces lactis** LAC4 **lactose**.

Expression and characterization of **Kluyveromyces lactis** beta ... - NCBI

<https://www.ncbi.nlm.nih.gov/pubmed/14626424> ▾ Traducir esta página

de CS Kim - 2003 - Citado por 51 - Artículos relacionados

15 oct. 2003 - **Kluyveromyces lactis** beta-galactosidase gene, LAC4, was expressed in ... The expressed protein was multimeric with a subunit molecular mass of 118 kDa. ... **optimal** at 37 and 40 degrees C for o-nitrophenyl-beta-D-galactopyranoside (oNPG) ... mg(-1), and for **lactose** 20 mM and 570 micromol min(-1) mg(-1), respectively.

Dealing with different methods for **Kluyveromyces lactis** β ... - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC140120/> ▾ Traducir esta página

de M Becerra - 1998 - Citado por 28 - Artículos relacionados

14 may. 1998 - The **best** results regarding **Kluyveromyces lactis** β -galactosidase purification have ... extract described above and from a **K. lactis** commercial **lactase** preparation, ... a primary dose of 50 μ g of the **K lactis** β -galactosidase 124 kDa band cut out ...

New secretory strategies for **Kluyveromyces lactis** β -galactosidase ...

<https://academic.oup.com/peds/article/14/5/379/1493554> ▾ Traducir esta página

de M Becerra - 2001 - Citado por 43 - Artículos relacionados

16 may. 2001 - We examined several strategies for the secretion of **Kluyveromyces lactis** β -galactosidase ... β -Galactosidase or **lactase**, the enzyme which is responsible for the ... of 116 kDa sub-unit / **lactase** et al. 1994) from passing through the cell wall. **Besini** et al. obtained a maximum of

13 results for (LACTASE OR GALACTOSIDASE)/TI/AB/IW/CLMS/OBJ AND (Kluyveromyces lactis or K. lactis OR K. lactis)/TI/AB/IW/CLMS/OBJ AND (DAIRY PRODUCT)

Select       

#	Title	Publication number	1st App. date	Applicant/A
1	Improved enzyme variants of lactase from kluyveromyces lactis	WO2015107050	2015-01-13	DSM IP AS ROYAL DS

The invention relates to a variant polypeptide having **lactase** activity. The invention also relates to a nucleic acid sequence encoding such a variant polypeptide, to a nucleic acid construct comprising said nucleic acid sequence, to a recombinant expression vector comprising said nucleic acid construct and to a recombinant host cell comprising said expression vector. Further, the invention relates to a method for producing a **lactase** variant via use of such a host cell. Also, the invention relates to a method of producing a **lactase** polypeptide variant. The invention further relates to a composition comprising a **lactase** variant, to use of such a **lactase** variant or to the use of a **lactase** variant-containing composition in the preparation of a **dairy product**, to a process for the production of a **dairy product** and to the resulting **dairy product**.

2	Lactase -containing double microcapsule, preparation method therefor, and use thereof	WO2018038310	2016-08-25	C & M TECHNOL
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The present invention relates to: a **lactase**-containing double microcapsule formulated using **lactase** as a core material and sequentially coating the core material with a first coating material and a second coating material; a method for preparing the **lactase**-containing double microcapsule; and dairy products comprising the **lactase**-containing double microcapsule, as a use of the **lactase**-containing double microcapsule.

3	Purified lactase	WO02081673	2002-04-03	DSM DSM IP DSM IP AS SME DAY FEN NOTE PAGE ASE TSUBE SL SHUT FLO
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The present invention relates to a **lactase** solution comprising a **lactase** solution comprising less than 10 g/kg of poly and oligosaccharides, a process for the production of such a **lactase** solution, a sterilized **lactase** solution and to a process for the production of milk containing sterilized **lactase**, whereby such lactose is filter sterilized in-line with the milk production

4	Improved enzyme variants of lactase from kluyveromyces lactis	IN201617016611	2016-05-12	DSM IP AS
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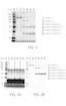
The invention relates to a variant polypeptide having **lactase** activity. The invention also relates to a nucleic acid sequence encoding such a variant polypeptide to a nucleic acid construct or sequence to a recombinant expression vector comprising said nucleic acid construct and to a recombinant host cell comprising said expression vector. Further the invention relates to a method for via use of such a host cell. Also the invention relates to a method of producing a **lactase** polypeptide variant. The invention further relates to a composition comprising a **lactase** variant to use of the use of a **lactase** variant containing composition in the preparation of a **dairy product** to a process for the production of a **dairy product** and to the resulting **dairy product**.

5	Enzyme preparations not yielding any bad taste	CA2946614	2006-11-28	DSM IP AS ROYAL DS
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The present invention describes an intracellular produced **lactase** which comprises less than 40 units arylsulfatase activity per NLU of **lactase** activity. The invention also provides a process

Título/Denominación		LACTASA OR GALATOSIDASA	
Referencia del solicitante		Tipo de solicitud	
Fecha de radicación	desde hasta	Estado(s)	Seleccionar
Decision Date_ES	desde hasta		
Solicitante/Titular	Buscar	Contacto de la solicitud	Buscar
		Examinador Principal	Seleccionar
Con/Sin Oposición		Número de Resolución	
Buscar - Limpiar			

Casos asociados

Número de solicitud	Tipo de solicitud	Título/Denominación	Etiqueta	Fecha de radicación	Estado(s)	Examinador Principal	Titular
☐  NC2017/0006191	Patente PCT	SOLUCIÓN DE LACTASA, MÉTODO PARA PRODUCIR LA MISMA Y PRODUCTO LÁCTEO QUE LA COMPRENDE		22 jun 2017	Bajo Examen de Fondo	JUAN NICOLAS TARQUINO CHIA	GODO SHUSEI CO. LTD.