

REPÚBLICA DE COLOMBIA
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

Resolución N° **23654**

Ref. Expediente N° NC2017/0011957

Por la cual se otorga una Patente de Invención

EL SUPERINTENDENTE DE INDUSTRIA Y COMERCIO

en ejercicio de sus facultades legales, en especial de las conferidas en el numeral 26 del artículo 3° del Decreto 4886 de 2011, y

CONSIDERANDO:

PRIMERO: Que mediante escrito radicado en esta Superintendencia el 24 de noviembre de 2017, con el N° NC2017/0011957, por NOVOZYMES A/S, entró a fase nacional la solicitud de patente de invención titulada “VARIANTES DE ALFA-AMILASA Y POLINUCLEÓTIDOS QUE CODIFICAN LAS MISMAS”, que corresponde a la solicitud internacional PCT/EP2016/060266 del 9 de mayo de 2016.

SEGUNDO: Que la solicitud fue publicada en la Gaceta de la Propiedad Industrial N° 826 el 10 de mayo de 2018, sin que se hubieran presentado oposiciones por parte de terceros.

TERCERO: Que realizado el examen de fondo mediante Oficio N° 1080, notificado el 23 de enero de 2020, se requirió al solicitante en los términos del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina para que presentara respuesta a las observaciones de carácter técnico, relacionadas con la patentabilidad o cumplimiento de los requisitos establecidos por esta Decisión para la concesión de la patente.

CUARTO: Que el solicitante mediante escrito radicado bajo el N° NC2017/0011957 el 22 de abril de 2020, respondió oportunamente el requerimiento formulado y presentó las reivindicaciones 1 a 10 que reemplazan las originalmente presentadas. Se acepta este último capítulo reivindicatorio presentado, comoquiera que se ajusta a las prescripciones contenidas en el artículo 34 de la Decisión 486.

QUINTO: Que en virtud de lo dispuesto en el artículo 14 de la Decisión 486 expedida por la Comisión de la Comunidad Andina *“Los países miembros otorgarán patentes para las invenciones, sean de producto o de procedimiento, en todos los campos de la tecnología, siempre que sean nuevas, tengan nivel inventivo y sean susceptibles de aplicación industrial”*.

SEXTO: Que en el presente caso las reivindicaciones 1 a 10 incluidas en el radicado bajo el N° NC2017/0011957 el 22 de abril de 2020, cumplen los requisitos indicados en el considerando anterior, toda vez que refieren a una variante de un polipéptido parental que tiene actividad alfa-amilasa, que difiere del estado de la técnica más cercano, WO/2014/183921, en que las variantes polipeptídicas reivindicadas comprenden múltiples modificaciones de aminoácidos puntuales con respecto a la secuencia de aminoácidos de SEQ ID NO: 13 (polipéptido de fusión que consiste en el dominio A y B de AAI10 y el dominio C de *Alicyclobacillus* sp.). Adicionalmente, estas diferencias no se encuentran sugeridas en el estado de la técnica y, como consecuencia de ello, se evidencia que dichas variantes polipeptídicas, con actividad alfa-amilasa, podrían incrementar el

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rendimiento de lavado con un factor de mejora (IF) ≥ 1 a baja temperatura preferentemente entre 15°C a 20°C, cuando se compara con un polipéptido parental que tiene actividad alfa-amilasa (Tabla - Modificaciones en la SEQ ID NO: 13 - Págs. 476 - 545 – Capítulo descriptivo). Sumado a lo anterior, la materia reivindicada, es susceptible de aplicación industrial.

En consecuencia, las reivindicaciones 1 a 10 cumplen los requisitos de novedad, nivel inventivo y aplicación industrial establecidos en la normatividad citada en precedencia y este Despacho encuentra procedente conceder para las mismas la patente solicitada.

SÉPTIMO: Que el solicitante en el escrito radicado bajo el N° NC2017/0011957 el 24 de noviembre de 2017, tituló la invención como: “VARIANTES DE ALFA-AMILASA Y POLINUCLEÓTIDOS QUE CODIFICAN LAS MISMAS”. Sin embargo, no se acepta porque este no se relaciona completamente con el objeto de la solicitud contenido en la descripción y las reivindicaciones, dado que, el objeto principal de la invención se basa en el desarrollo de variantes de un polipéptido parental con actividad alfa-amilasa, y de acuerdo con el objeto concedido, el título de la invención quedará de la siguiente manera: “VARIANTES DE UN POLIPÉPTIDO PARENTAL CON ACTIVIDAD ALFA-AMILASA”.

Con fundamento en las anteriores consideraciones, el Superintendente de Industria y Comercio,

RESUELVE

ARTÍCULO PRIMERO: Otorgar patente de invención a la solicitud que entró en fase nacional en virtud del Tratado de Cooperación en Materia de Patentes (PCT), para la creación titulada:

“VARIANTES DE UN POLIPÉPTIDO PARENTAL CON ACTIVIDAD ALFA-AMILASA”

Clasificación IPC: C12N 9/28.

Reivindicaciones: 1 a 10 incluidas en el radicado bajo el N° NC2017/0011957 el 22 de abril de 2020, de acuerdo con el anexo 1.

Titular: NOVOZYMES A/S.

Domicilio: KROGSHOEJVEJ 362880 BAGSVAERD, DINAMARCA.

Inventores: Padma Venkatachalam IYER, Chakshusmathi GHADIYARAM, Rajendra Kulothungan SAINATHAN, Astrid MUNCH, Padmavathi BALUMURI, Carsten ANDERSEN, Iben DAMAGER y Sohel DALAL.

Prioridad N°: 8/05/2015, IN (INDIA), 2335/CHE/2015.

Solicitud internacional N°: PCT/EP2016/060266

Fecha: 9 de mayo de 2016.

Vigente desde: 9 de mayo de 2016

Hasta: 9 de mayo de 2036.



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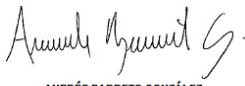
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ARTÍCULO SEGUNDO: El titular tendrá los derechos y las obligaciones establecidos en la Decisión 486 de la Comisión de la Comunidad Andina y en las demás disposiciones legales vigentes sobre propiedad industrial, precisando que para mantener vigente la patente se deberá cancelar la tasa anual de mantenimiento, conforme lo dispone el artículo 80 de la referida norma comunitaria.

ARTÍCULO TERCERO: Notificar el contenido de la presente resolución a NOVOZYMES A/S, advirtiéndole que contra ella procede el recurso de reposición, ante el Superintendente de Industria y Comercio, el cual podrá ser interpuesto en el momento de la notificación o dentro de los diez (10) días hábiles siguientes a ella.

NOTIFÍQUESE Y CÚMPLASE

Dada en Bogotá D.C., el 26 de mayo de 2020



ANDRÉS BARRETO GONZÁLEZ
SUPERINTENDENTE DE INDUSTRIA Y COMERCIO

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por: ANDRÉS
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GONZÁLEZ
Fecha: 2020.05.27
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Razón: Validez jurídica.
Ubicación: Bogotá,
Colombia.

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ANEXO 1

REIVINDICACIONES CONCEDIDAS

1. Una variante de un polipéptido parental que tiene actividad alfa-amilasa, en donde dicha variante es un polipéptido de fusión y en donde dicha variante comprende una modificación, en donde dicha variante tiene un rendimiento de lavado mejorado con un factor de mejora (IF) de ≥ 1 cuando se compara con dicho polipéptido parental, y en donde dicha variante es seleccionada de

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Resolución N° 23654

Ref. Expediente N° NC2017/0011957

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Resolución N° 23654

Ref. Expediente N° NC2017/0011957

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H1*+N54S+V56T+G109A+F113Q+Q172R+L173V+A174S+G182*+D183*+N195F+V206L+K391A+T444Q+G476K
K
H1*+N54S+V56T+G109A+F113Q+R116H+A174S+G182*+D183*+N195F+V206L+K391A+G476K
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H1*+N54S+V56T+G109A+F113Q+R116H+Q172G+A174S+G182*+D183*+N195F+V206L+K391A+T444Q+G476K
K
H1*+N54S+V56T+G109A+F113Q+R116H+Q172G+A174S+G182*+D183*+N195F+V206L+K391A+T444Q+P473R+G476K
H1*+N54S+V56T+G109A+F113Q+R116H+Q172G+L173V+A174S+G182*+D183*+N195F+V206L+K391A+T444Q+P473R+G476K
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H1*+N54S+V56T+G109A+F113Q+R116H+W167F+Q172N+L173V+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+N54S+V56T+G109A+F113Q+R116H+W167F+Q172R+A174S+G182*+D183*+N195F+A204G+V206L+K391A+P473R+G476K
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K
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H1*+N54S+V56T+G109A+F113Q+R116Q+Q172N+A174S+G182*+D183*+N195F+V206L+A265G+K391A+P473R+G476K



Resolución N° **23654**

Ref. Expediente N° NC2017/0011957

H1*+N54S+V56T+G109A+F113Q+R116Q+T165G+Q172G+A174S+G182*+D183*+N195F+V206L+K391A+T444
Q+G476K
H1*+N54S+V56T+G109A+F113Q+W167F+Q172N+A174S+G182*+D183*+N195F+A204G+V206L+K391A+P473
R+G476K
H1*+N54S+V56T+G109A+F113Q+W167F+Q172N+A174S+G182*+D183*+N195F+V206L+K391A+T459N+G476
K
H1*+N54S+V56T+G109A+F113R+A174S+G182*+D183*+N195F+V206L+K391A+G476K
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6K
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Resolución N° 23654

Ref. Expediente N° NC2017/0011957

H1*+N54S+V56T+G109A+Q169E+Q172K+A174*+G182*+D183*+N195F+V206L+F328L+K391A+G476K
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N195F
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R+G476K
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K



Resolución N° 23654

Ref. Expediente N° NC2017/0011957

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H1*+N54S+V56T+G109A+W167F+A174S+G182*+D183*+N195F+V206L+K391A+G476K
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H1*+N54S+V56T+G109A+W167F+Q172G+A174S+G182*+D183*+N195F+V206L+K391A+P473R+G476K
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H1*+N54S+V56T+G109A+W167G+A174S+G182*+D183*+N195F+V206L+K391A+G476K
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Resolución N° 23654

Ref. Expediente N° NC2017/0011957

H1*+N54S+V56T+K72A+G109A+W167F+A174S+G182*+D183*+N195F+V206L+K391A+G476K
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+G476K
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H1*+N54S+V56T+K72R+G109A+F113Q+R116H+W167F+Q172G+A174S+G182*+D183*+G184T+N195F+V206
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F+V206L+K391A+T444Q+P473R+G476K
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+G476K
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Resolución N° 23654

Ref. Expediente N° NC2017/0011957

H1*+N54S+V56T+K72R+G109A+G133Q+W167F+Q172R+A174S+G182*+D183*+N195F+V206L+K391A+G476K
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Resolución N° 23654

Ref. Expediente N° NC2017/0011957

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H1*+T51K+N54S+V56T+G109A+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+T51Q+N54S+V56T+G109A+A174S+G182*+D183*+N195F+Y203F+V206L+K391A+G476K
H1*+T51S+N54S+V56T+G109A+A174P+G182*+D183*+N195F+V206L+K391A+G476K
H1*+T51S+N54S+V56T+G109A+Q172M+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+T51S+N54S+V56T+G109A+Q172N+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+T51V+N54S+V56T+G109A+Q172D+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+T5K+N54S+V56T+G109A+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+V56A+G109A+A174S+G182*+D183*+N195F+V206L+G476K
H1*+V56T+G109A+A174S+G182*+D183*+N195F+V206L+D377H+K391A+G476K
H1*+V56T+G109A+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+V56T+G109A+Q169E+Q172K+A174*+G182*+D183*+N195F+V206L+K391A+G476K
H1*+W48F+N54S+V56T+G109A+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*+W48F+N54S+V56T+G109A+Q169E+Q172K+A174*+G182*+D183*+N195F+V206L+K391A+G476K
H1*+W48G+G109A+G182*+D183*+N195F+V206L+K391A+G476K
H1*+W48Y+N54S+V56T+G109A+A174S+G182*+D183*+N195F+V206L+K391A+G476K
H1*K+G50A+N54S+V56T+G109A+W167F+A174S+G182*+D183*+N195F+V206L+K391A+G476K
N54S+V56T+G109A+A174S+G182*+D183*+N195F+K391A+G476K
N54S+V56T+G109A+A174S+G182*+D183*+N195F+V206L+K391A+G476K
N54S+V56T+G109A+G182*+D183*+N195F;

en donde la numeración es acorde a la SEQ ID NO: 13.

2. La variante de acuerdo con la reivindicación 1, en donde dicha variante tiene un rendimiento de lavado mejorado a baja temperatura, en donde dicha baja temperatura está en un rango de 5°C a 40°C.



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3. La variante de acuerdo con la reivindicación 1, en donde dicha variante tiene un rendimiento de lavado mejorado a baja temperatura, en donde dicha baja temperatura está en un rango de 10°C a 30°C.
4. La variante de acuerdo con las reivindicaciones 2 a 3, en donde la baja temperatura está en un rango de 15°C a 20°C.
5. Una composición que comprende la variante de acuerdo con cualquiera de las reivindicaciones precedentes.
6. La composición de acuerdo con la reivindicación 5, en donde dicha composición además comprende al menos un compuesto activo adicional.
7. La composición de acuerdo con cualquiera de las reivindicaciones 5 y 6, en donde dicho compuesto activo adicional es una enzima, tal como una proteasa, lipasa, celulasa, pectato liasa y mananasa.
8. La composición de acuerdo con cualquiera de las reivindicaciones 5 a 7, en donde dicha composición además comprende un tensioactivo, adyuvante, blanqueante y/o polímero, o en donde dicha composición es libre de fosfato.
9. Una composición líquida, que comprende la composición de acuerdo con cualquiera de las reivindicaciones 5 a 8, en donde la composición líquida es un detergente líquido, o una composición de detergente en dosis unitaria.
10. Una composición en polvo, que comprende la composición de acuerdo con cualquiera de las reivindicaciones 5 a 8, en donde la composición en polvo es una barra de jabón o una composición detergente o una composición de detergente en dosis unitaria.