TRADEMARK ASSIGNMENT COVER SHEET

ETAS ID: TM695074 Electronic Version v1.1

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SEVENTH AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
AKEBIA THERAPEUTICS, INC.		12/04/2021	Corporation: DELAWARE
KERYX BIOPHARMACEUTICALS, INC.		12/04/2021	Corporation: DELAWARE

RECEIVING PARTY DATA

Name:	BIOPHARMA CREDIT PLC
Street Address:	c/o Beaufort House, 51 New North Road
City:	Exeter EX4 4EP
State/Country:	UNITED KINGDOM
Entity Type:	Public Limited Company: ENGLAND AND WALES

PROPERTY NUMBERS Total: 1

Property Type	Number	Word Mark
Registration Number:	4956680	AURYXIA

CORRESPONDENCE DATA

Fax Number: 2028874288

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2024165453

Email: mbeyene@akingump.com, DC IPDocketing@AKINGUMP.com

Mussie B Beyene **Correspondent Name:** Address Line 1: 2001 K Street N.W.

Address Line 4: Washington DC, D.C. 20006

ATTORNEY DOCKET NUMBER:	687747.0050
NAME OF SUBMITTER:	Mussie B Beyene
SIGNATURE:	/Mussie B Beyene/
DATE SIGNED:	12/15/2021

Total Attachments: 9

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This EIGHTH AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of December 4, 2021, (this "Agreement") is made by AKEBIA THERAPEUTICS, INC. and KERYX BIOPHARMACEUTICALS, INC., (the "Grantors" and each a "Grantor"), in favor of BIOPHARMA CREDIT PLC (together with its successors and permitted assigns in such capacity, the "Collateral Agent") on behalf of Lenders and the other Secured Parties (as defined in the Loan Agreement referred to below).

WITNESSETH:

WHEREAS, pursuant to the Loan Agreement, dated as of November 11, 2019 (as the same may be amended, amended and restated, supplemented or otherwise modified from time to time, the "Loan Agreement"), by and among AKEBIA THERAPEUTICS, INC. ("Borrower"), KERYX BIOPHARMACEUTICALS, INC. (as an additional Credit Party), BIOPHARMA CREDIT PLC (as the "Collateral Agent"), BPCR LIMITED PARTNERSHIP (as a "Lender") and BIOPHARMA CREDIT INVESTMENTS V (MASTER) LP (as a "Lender"), each Lender has agreed to make extensions of credit to Borrower upon the terms and subject to the conditions set forth therein;

WHEREAS, each Grantor has agreed, pursuant to a Guaranty and Security Agreement dated as of November 25, 2019 in favor of the Collateral Agent for the benefit of Lenders and the other Secured Parties (as such agreement may be amended, amended and restated, supplemented or otherwise modified from time to time, the "Guaranty and Security Agreement"), to guarantee the Obligations (as defined in the Loan Agreement) of Borrower; and

WHEREAS, each Grantor is party to the Guaranty and Security Agreement pursuant to which Grantor executed and delivered to the Collateral Agent a Seventh Amended and Restated Intellectual Property Security Agreement, dated as of September 3, 2021 (the "Existing Intellectual Property Security Agreement");

WHEREAS, events impacting certain of the Intellectual Property Collateral (defined below) have subsequently occurred and, pursuant to the Guaranty and Security Agreement, the Grantors are required to execute and deliver to the Collateral Agent this Agreement; and

WHEREAS, this Agreement amends and restates the Existing Intellectual Property Security Agreement in its entirety;

NOW, THEREFORE, in consideration of the mutual covenants, terms and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree, intending to be legally bound, as follows:

Section 1. <u>Defined Terms</u>. Capitalized terms used herein without definition are used as defined in the Guaranty and Security Agreement.

Section 2. <u>Grant of Security Interest in IP Collateral</u>. Each Grantor, as collateral security for the prompt and complete payment and performance when due (whether at stated maturity, by acceleration or otherwise) of the Secured Obligations, hereby mortgages, pledges and hypothecates to the Collateral Agent, for the benefit of Lenders and the other Secured Parties, and grants to the Collateral Agent, for the benefit of Lenders and the other Secured Parties, a Lien on and security interest in, all of its right, title and interest in, to and under the following Collateral of such Grantor, in each case, solely to the extent constituting Collateral (and excluding any Excluded Property) (the "Intellectual Property Collateral"):

- (a) any and all United States Patents, Trademarks and other Intellectual Property and IP Licenses (including any IP Licenses under the Current Company IP Agreements to which a Grantor is a party and the rights of such Grantor thereunder, and all of a Grantor's right, title and interest in, to and under any Internet Domain Names and Software) owned by a Grantor, in each case, relating to the research, development, manufacture, production, use, commercialization, marketing, importing, storage, transport, offer for sale, distribution or sale of the Product in the Territory, including, without limitation, those referred to on Schedule 1 hereto; and
- (b) all proceeds, products, accessions, rents and profits of or in respect of any of the foregoing.
- Section 3. <u>Guaranty and Security Agreement</u>. The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Collateral Agent for the benefit of Lenders and the other Secured Parties, pursuant to the Guaranty and Security Agreement and each Grantor hereby acknowledges and agrees that the obligations, rights and remedies of such Grantor and of the Collateral Agent on behalf of Lenders and the other Secured Parties with respect to the security interest in the Intellectual Property Collateral made and granted hereby are more fully set forth in the Guaranty and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.
- Section 4. <u>Grantor Remains Liable</u>. Each Grantor hereby agrees that, anything herein to the contrary notwithstanding, such Grantor shall assume full and complete responsibility for the prosecution, defense, enforcement or any other reasonably necessary actions in connection with their Intellectual Property and IP Licenses subject to a security interest hereunder.
- Section 5. <u>Counterparts</u>. This Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.
- Section 6. <u>Governing Law.</u> This Agreement and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York without regard to any principle of conflicts of law that could require the application of the law of any other jurisdiction.

IN WITNESS WHEREOF, each Grantor has caused this Eighth Amended and Restated Intellectual Property Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

AKEBIA THERAPEUTICS, INC.

as Grantor

By:

Name: John R. Butler

Title: President and CEO

KERYX BIOPHARMACEUTICALS, INC.

as Grantor

By:

Name: John R. Butler Title:

Signature Page to Eighth Amended and Restated Intellectual Property Security Agreement

ACCEPTED AND AGREED as of the date first above written:

BIOPHARMA CREDIT PLC, as Collateral Agent

By: Pharmakon Advisors, LP, its Investment Manager

By: Pharmakon Management I, LLC, its General Partner

Name: Pedro Gonzalez de Cosio Title: Managing Member

AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT SCHEDULE I TO

Intellectual Property

1. REGISTERED PATENTS, PATENT APPLICATIONS AND PATENT LICENSES

P20001US5	P20001US4	P20001US3	P20001US2	P20001US13	P20001US12	P20001US1	Patent: Patent ID
14/011,325	14/011,291	13/672,900	12/711,679	17/405,543	17/141,765	11/206,981	Application Number
2/18/2004	2/18/2004	2/18/2004	2/18/2004	2/18/2004	2/18/2004	2/18/2004	Effective Filing Date
8,901,349	8,754,258	8,609,896	8,338,642			7,767,851	Patent Number
12/2/2014	6/17/2014	12/17/2013	12/25/2012			8/3/2010	Issue Date
In Force	In Force	In Force	In Force	Pending	Abandoned in favor of filing P20001US13	In Force	Status (High-Level)
Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	All Assignees/ Owner
FERRIC ORGANIC COMPOUNDS, USES	FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	Title

PHARMACEUTICAL-	Panion & BF	In Force	9/12/2017	9,757,416	8/18/2006	14/701,933	P20002US5
THEREOF AND METHODS OF MAKING SAME							
GRADE FERRIC ORGANIC	Biotech Inc.						
PHARMACEUTICAL-	Panion & BF	In Force	6/9/2015	9,050,316	8/18/2006	14/306,756	P20002US4
OF MAKING SAME							
THEREOF AND METHODS							
COMPOLINDS LISES	Diotech nic.						
PHARMACEUTICAL-	Panion & BF	In Force	6/17/2014	8,754,257	8/18/2006	13/661,558	P20002US3
OF MAKING SAME							
THEREOF AND METHODS							
COMPOUNDS, USES							
GRADE FERRIC ORGANIC	Biotech Inc.						
PHARMACEUTICAL-	Panion & BF	In Force	10/30/2012	8,299,298	8/18/2006	13/289,048	P20002US2
OF MAKING SAME							
THEREOF AND METHODS							
COMPOUNDS, USES							
GRADE FERRIC ORGANIC	Biotech Inc.						
PHARMACEUTICAL-	Panion & BF	In Force	1/10/2012	8,093,423	8/18/2006	12/064,058	P20002US1
OF MAKING SAME							
THEREOF AND METHODS							
COMPOUNDS, USES	Biotech Inc.						
FERRIC ORGANIC	Panion & BF	In Force	3/14/2018	9,913,821	2/18/2004	15/143,987	P20001US8
OF MAKING SAME							
THEREOF AND METHODS							
COMPOUNDS, USES	Biotech Inc.						
FERRIC ORGANIC	Panion & BF	In Force	5/3/2016	9,328,133	2/18/2004	14/502,774	P20001US7
OF MAKING SAME							
THEREOF AND METHODS							
COMPOUNDS, USES	Biotech Inc.						
FERRIC ORGANIC	Panion & BF	In Force	9/30/2014	8,846,976	2/18/2004	14/011,357	P20001US6
OF MAKING SAME							
THEREOF AND METHODS							

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P20007US4	P20007US3	P20007US1	P20006US4		P20006US3	P20006US2		P20005US1	P20004US	P20003US1		P20002US10	
16/376,907	15/159,008	13/255,326	17/388,361		17/119,554	15/814,767		12/162,558	10/682,045	08/794,328		17/350,267	
7/21/2010	7/21/2010	7/21/2010	1/26/2007		1/26/2007	1/26/2007		1/26/2007	10/8/2003	2/3/1997		8/18/2006	
	10,300,039	9,387,191				10,898,459		9,750,715	6,903,235	5,753,706			
	5/28/2019	7/12/2016				1/16/2021		9/5/2017	6/7/2005	5/19/1998			
Pending	In Force	In Force	Pending	in favor of filing P20006US4	Abandoned	In Force		In Force	In Force	In Force		Pending	
Keryx Biopharmaceuticals , Inc.	Keryx Biopharmaceuticals , Inc.	Keryx Biopharmaceuticals , Inc.	Panion & BF Biotech Inc.	Biotech Inc.	Panion & BF	Panion & BF Biotech Inc.		Panion & BF Biotech Inc.	Panion & BF Biotech Inc.	HSU, Chen Hsing	Biotech Inc.	Panion & BF	
FERRIC CITRATE DOSAGE FORMS	FERRIC CITRATE DOSAGE FORMS	FERRIC CITRATE DOSAGE FORMS	METHOD OF TREATING CHRONIC KIDNEY DISEASE	CHRONIC KIDNEY DISEASE	METHOD OF TREATING	METHOD OF TREATING CHRONIC KIDNEY DISEASE	STABILIZING SOFT TISSUE CALCIFICATION	METHOD OF REVERSING, PREVENTING OR	PHARMACEUTICAL- GRADE FERRIC CITRATE	METHOD FOR TREATING RENAL FAILURE	GRADE FERRIC ORGANIC COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME	PHARMACEUTICAL	COMPOUNDS, USES THEREOF AND METHODS OF MAKING SAME

OXIDE							
BETA-IRON HYDROXIDE							
IRON (III) CITRATE,	Japan Tobacco, Inc.	Issued	4/18/2017	9,624,155	2/19/2014	14/184,062	
USES FOR THE SAME							
MANUFACTURE AND	, Inc.						
CITRATE, METHODS OF	Biopharmaceuticals	,					
HIGH PURITY FERRIC	Кегух	Pending			3/12/2014	17/507.172	P20011US10
USES FOR THE SAME		P20011US10					
MANUFACTURE AND	, Inc.	filing					
CITRATE, METHODS OF	Biopharmaceuticals	in favor of					
HIGH PURITY FERRIC	Keryx	Abandoned			3/12/2014	17/203,245	P20011US9
ANEMIA							
IRON-DEFICIENCY	, Inc.						
IN THE TREATMENT OF	Biopharmaceuticals						
USE OF FERRIC CITRATE	Keryx	Pending			3/3/2016	17/490,195	P20010US2
ANEMIA		P20010US2					
IRON-DEFICIENCY	, Inc.	filing					
IN THE TREATMENT OF	Biopharmaceuticals	in favor of					
USE OF FERRIC CITRATE	Keryx	Abandoned			3/3/2016	15/553,348	P20010US1
PATIENTS							
KIDNEY DISEASE							
EVENTS IN CHRONIC							
ADVERSE CARDIAC							
MORBIDITY RELATED TO							
MORTALITY AND							
AND THE REDUCTION OF	, Inc.						
IN THE TREATMENT OF	Biopharmaceuticals	,					
USE OF FERRIC CITRATE	Keryx	Pending			11/3/2014	16/216,772	P20009US2
DISEASE PATIENTS							
CHRONIC KIDNEY	, Inc.						
IN THE TREATMENT OF	Biopharmaceuticals						
USE OF FERRIC CITRATE	Keryx	Pending			6/21/2013	16/154,268	P20008US5
	, Inc.						
FORMS	Biopharmaceuticals	Smons			11 21 2020	10/07 1,121	1 10000
EFRRIC CITRATE DOSAGE	Kervy	Pending			7/21/2020	16/894 121	52/17000cd

RECORDED: 12/15/2021

OXIDE					
BETA-IRON HYDROXIDE					
SUBSTANTIALLY FREE OF					
IRON (III) CITRATE,	Japan Tobacco, Inc.	Pending	2/19/2014	16/815,472	

2. TRADEMARK REGISTRATIONS

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3. IP LICENSES

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- ь. р. Second Amended and Restated License Agreement between the Borrower and Panion & BF Biotech, Inc., dated April 17, 2019.
- Amended and Restated Sublicense Agreement between Keryx and Japan Tobacco and TORII Pharmaceutical Co., Ltd., dated June 8,
- First Amendment to Amended and Restated Sublicense Agreement between Keryx and Japan Tobacco and TORII Pharmaceutical Co., Ltd., dated June 12, 2013.