

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MALLINCKRODT PHARMA IP TRADING D.A.C.	05/24/2019
RECEIVING PARTY DATA		
Name:	MALLINCKRODT IP UNLIMITED COMPANY	
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK	
Internal Address:	CRUISERATH, BLANCHARDSTOWN	
City:	DUBLIN	
State/Country:	IRELAND	
Postal Code:	15	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16864510
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DATE SIGNED:	05/11/2020	
Total Attachments: 2		
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ASSIGNMENT AGREEMENT

WHEREAS, Mallinckrodt Pharma IP Trading D.A.C., an Irish designated activity company located at College Business & Technology Park, Cruiserath, Blanchardstown, Dublin 15, Ireland ("Assignor"), is the owner of the entire right, title and interest in and to the patents and patent applications described below and the corresponding inventions as described and claimed therein (collectively "Patent Properties"):

Status	Application	File date	Patent No.	Issue Date	Title
Published	13/691,677	11/30/2012			Methods For Treating Hyperbilirubinemia With Stannosoporphin
Granted	10/812,156	3/29/2004	7,375,216	5/20/2008	Preparation Of Metal Mesoporphyrin Halide Compounds
Granted	13/435,868	3/30/2012	8,735,574	5/27/2014	Methods For Synthesizing Metal Mesoporphyrins
Granted	14/253,710	4/15/2014	9,181,285	11/10/2015	Methods For Synthesizing Metal Mesoporphyrins
Granted	14/875,141	10/5/2015	9,688,705	6/27/2017	Methods For Synthesizing Metal Mesoporphyrins
Granted	15/343,967	11/4/2016	9,902,745	2/27/2018	High-Purity Large-Scale Preparation Of Stannosoporphin
Granted	11/867,559	10/4/2007	7,960,371	6/14/2011	High-Purity Large-Scale Preparation Of Stannosoporphin
Granted	12/968,651	12/15/2010	8,530,458	9/10/2013	High-Purity Large-Scale Preparation Of Stannosoporphin
Granted	14/019,513	9/5/2013	8,835,416	9/16/2014	High-Purity Large-Scale Preparation Of Stannosoporphin
Granted	14/460,080	8/14/2014	9,107,927	8/18/2015	High-Purity Large-Scale Preparation Of Stannosoporphin
Granted	14/793,921	7/8/2015	9,517,239	12/13/2016	High-Purity Large-Scale Preparation Of Stannosoporphin
Granted	10/453,815	6/3/2003	6,818,763	11/16/2004	Preparation Of Metal Mesoporphyrin Halide Compounds
Granted	11/957,317	12/14/2007	7,777,028	8/17/2010	Preparation Of Metal Mesoporphyrin Compounds
Granted	12/833,873	7/9/2010	8,178,664	5/15/2012	Preparation Of Metal Mesoporphyrin Compounds
Granted	15/867,900	1/11/2018	10,273,255	4/30/2019	High-Purity Large-Scale Preparation Of Stannosoporphin
Published	16/125,190	9/7/2018			Methods For Synthesizing Metal Mesoporphyrins
Pending	16/300,362	11/9/2018			Methods For Treating Hyperbilirubinemia With Stannosoporphin And Phototherapy
Pending	16/298,603	3/11/2019			High-Purity Large-Scale Preparation Of Stannosoporphin

AND WHEREAS, Mallinckrodt IP Unlimited Company, an Irish private unlimited company located at College Business & Technology Park, Cruiserath, Blanchardstown, Dublin 15, Ireland ("Assignee"), is desirous of acquiring the entire right, title and interest in and to the Patent Properties and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, their entire worldwide right, title and interest in and to the Patent Properties, and to any and all letters patent which may be granted as a result thereof in the United States of America, in the territorial possessions of the United States of America and in any and all foreign countries, and to any and all divisions, reissues and continuations thereof, including the right to sue and recover damages for past infringement, the right to file foreign applications directly in the name of ASSIGNEE, the right to claim priority rights deriving from the Patent Properties to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said inventions and all letters patent on said inventions to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this sale, assignment and transfer not been made.

This Assignment is effective as from December 29, 2017

Executed the 24th day of May, 2019 (Execution date)

Mallinckrodt Pharma IP Trading D.A.C.

By: Carlynn Davis

Name: Carlynn Davis
Title: Attorney-in-fact

Mallinckrodt IP Unlimited Company

By: Carlynn Davis

Name: Carlynn Davis
Title: Attorney-in-fact