

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	02/01/2017
SEQUENCE:	2

CONVEYING PARTY DATA

Name	Execution Date
MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED	09/28/2017

RECEIVING PARTY DATA

Name:	MALLINCKRODT PHARMA IP TRADING D.A.C.
Street Address:	DAMASTOWN INDUSTRIAL ESTATE
Internal Address:	MULHUDDART
City:	DUBLIN 15
State/Country:	IRELAND

PROPERTY NUMBERS Total: 7

Property Type	Number
Patent Number:	7393674
Patent Number:	7473543
Patent Number:	8062876
Patent Number:	8071090
Patent Number:	8759066
Patent Number:	9629798
Patent Number:	9597062

CORRESPONDENCE DATA

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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.

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NAME OF SUBMITTER:	CARLYNN DAVIS

PATENT

SIGNATURE:	/Carlynn Davis/
DATE SIGNED:	09/28/2017
Total Attachments: 2 source=MAL 2270 US#page1.tif source=MAL 2270 US#page2.tif	

ASSIGNMENT AGREEMENT

WHEREAS, **Mallinckrodt Pharmaceuticals Ireland Limited**, an Irish company located at College Business & Technology Park, Cruiserath, Blanchardstown, 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"):

Invention Title	Appl. No.	Patent No.	Issue Date	Status
THROMBIN COMPOSITIONS	11/157707	7393674	7/1/2008	Granted
THROMBIN COMPOSITIONS	11/539276	7473543	1/6/2009	Granted
METHOD FOR ACTIVATING PRETHROMBIN-1	12/097027	8062876	11/22/2011	Granted
STABILIZED THROMBIN COMPOSITIONS	12/138922	8071090	12/6/2011	Granted
THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	12/935235	8759066	6/24/2014	Granted
HEMOSTATIC MICROSPHERES	12/935114	9629798	4/25/2017	Granted
MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	12/988353	9597062	3/21/2017	Granted

AND WHEREAS, **Mallinckrodt Pharma IP Trading D.A.C.**, an Irish Designated Activity Company located at Damastown Industrial Estate, Mulhuddart, 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 February 1, 2016.

Executed the 28th day of September, 2017 (Execution date)

Mallinckrodt LLC

By: 

Name: Carlynn Davis

Title: Attorney-in-fact

Mallinckrodt Nuclear Medicine LLC

By: 

Name: Carlynn Davis

Title: Attorney-in-fact

PATENT

RECORDED: 09/28/2017

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