

## Urgent Field Safety Notice

### Pipeline™ Flex Embolization Device and Pipeline™ Flex with Shield Technology All Product Models Recall

July 2021

Medtronic Reference: FA985

Dear Healthcare Professional,

The purpose of this letter is to advise you that Medtronic is voluntarily recalling specific production lots of **Pipeline™ Flex Embolization Devices, including Pipeline™ Flex Embolization Device with Shield Technology.**

**Issue Description:**

Medtronic has received reports of serious injuries and deaths in connection with delivery pushwire fracture at the distal section of the Pipeline Flex™ delivery system during use. Through investigation, we have established that the root cause impacts production lots described in the Product Scope section below. Corrective actions have been implemented to address the underlying issue. This recall action is limited to the specific production lots listed on Attachment 1.

**Risk to Health:**

As of July 2, 2021, Medtronic has received reports of 71 confirmed and unconfirmed fractures. These events include reports of ten (10) serious injuries and two (2) deaths. One (1) additional serious injury originated from Europe (Finland), however all the other serious injuries and 2 deaths occurred outside Europe, Middle East and Africa.

Use of impacted product may result in unintended fracture, where the distal portion of the pushwire separates from the device delivery system during delivery and deployment. If separation occurs, it may result in significant patient injury, including a prolonged procedure, foreign body, ischemic stroke, intracranial hemorrhage, neurological deficit, and/or death.

The risk of fracture presents only intra-operatively. If a Pipeline™ Flex embolization device has already been implanted successfully, there is no increased risk to patients due to the issue. Those patients with an implanted device should continue with their normal course of treatment.

**Product Scope:**

Specific lot numbers of all models of the Pipeline™ Flex Embolization Device and Pipeline Flex Embolization Device with Shield Technology that have been manufactured between April-October 2019 (Expiry Dates: April 2022 – October 2022) and April-May 2020 (Expiry Dates: April 2023 – May 2023) are impacted by the issue. Refer to Attachment 1 – Product List for specific impacted production lot numbers.

Product Names, Unique Device Identifier (if applicable)	Manufacturer’s Product Number/Catalog Number
Pipeline™ Flex Embolization Device	PED-250-XX, PED-275-XX, PED-300-XX, PED-325-XX, PED-350-XX, PED-375-XX, PED-400-XX, PED-425-XX, PED-450-XX, PED-475-XX, PED-500-XX
Pipeline™ Flex Embolization Device with Shield Technology™	PED2-250-XX, PED2-275-XX, PED2-300-XX, PED2-325-XX, PED2-350-XX, PED2-375-XX, PED2-400-XX, PED2-425-XX, PED2-450-XX, PED2-475-XX, PED2-500-XX

**Required Actions:**

Our records show that your facility has received one or more lots of the impacted products. Lot Numbers of the affected product are listed in Attachment 1. The impacted list of products is grouped by 3-month expiry date windows to assist in inventory review.

Consequently, Medtronic requires that you immediately take the following actions:

1. Based on the product in your control, please review the expiry window as compared to the expiration date on the Pipeline devices. (See sample labels in Attachment 1 for an example of where the expiry date can be found on Pipeline labels).
2. If any device is within the following expiry windows – April 2022 – October 2022 or April 2023 – May 2023, please review Attachment 1 to identify the expiry group and review the lot number on your device.
3. Devices observed to have any of the lot numbers in Attachment 1, are considered within scope of the Recall notice.
4. Do NOT use any impacted product. Remove and quarantine all unused impacted products in your inventory.
5. Return the impacted products to Medtronic. Your Medtronic representative can assist in facilitating the return of product as necessary. If alternative product is needed, your Medtronic representative can assist you with identifying suitable replacement product.

Medtronic has taken the necessary steps to prevent future shipment of the impacted product.

**Transmission of this Communication:**

Please share this communication within your organization, with other organizations where impacted devices have been transferred, and any other associated organizations that may be impacted by this action.

Please maintain a copy of this letter for your records.

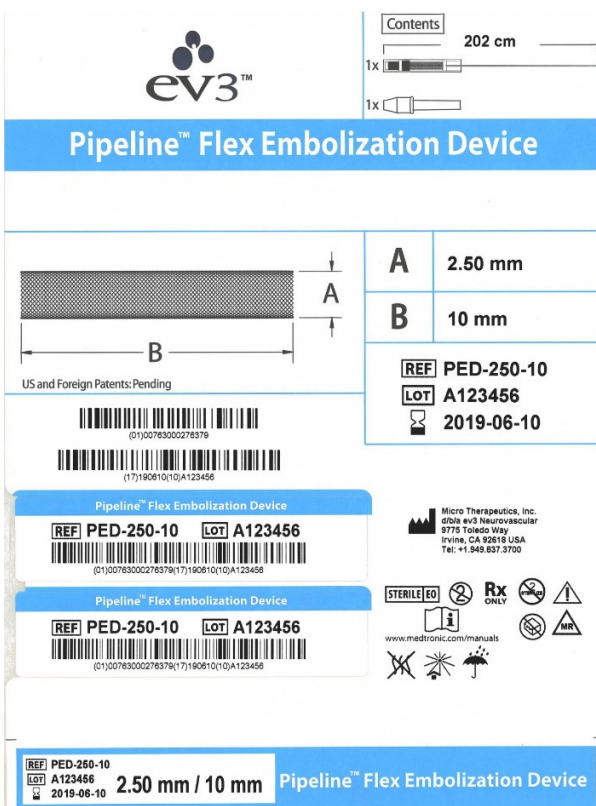
**Additional Information:**

The Competent Authority of your country has been notified of this action.

We are committed to patient safety and appreciate your prompt attention to this matter. We regret any inconvenience this may cause. If you have any questions, please contact your Medtronic Representative .

Sincerely,

Attachment 1 – Affected Product Lots



**Pipeline™ Flex Embolization Device**

Contents: 1x [Diagram], 202 cm

Dimensions: A = 2.50 mm, B = 10 mm

REF PED-250-10  
LOT A123456  
2019-06-10

Micro Therapeutics, Inc.  
9775 Toledo Way  
Irvine, CA 92618 USA  
Tel: +1.949.837.3700

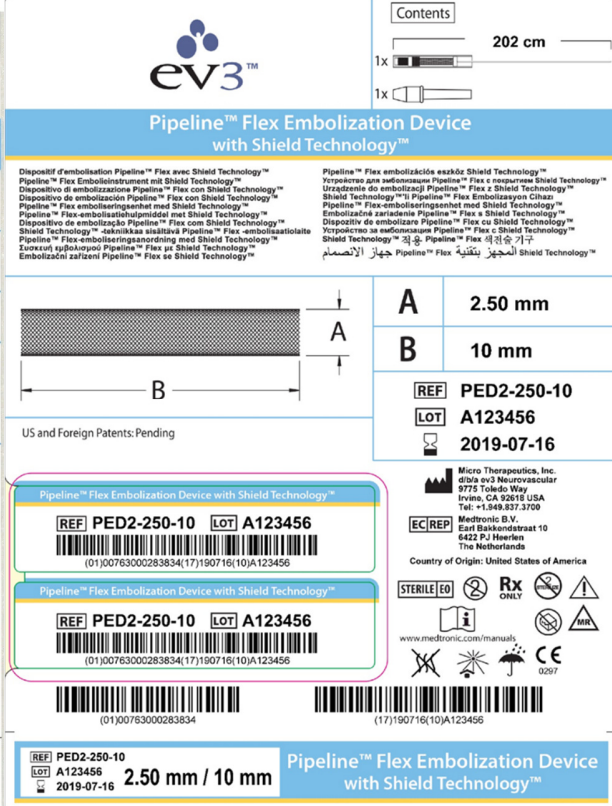
STERILE EO, Rx ONLY, CE 0297

www.medtronic.com/manuals

Country of Origin: United States of America

REF PED-250-10  
LOT A123456  
2019-06-10

2.50 mm / 10 mm Pipeline™ Flex Embolization Device



**Pipeline™ Flex Embolization Device with Shield Technology™**

Contents: 1x [Diagram], 202 cm

Dimensions: A = 2.50 mm, B = 10 mm

REF PED2-250-10  
LOT A123456  
2019-07-16

Micro Therapeutics, Inc.  
9775 Toledo Way  
Irvine, CA 92618 USA  
Tel: +1.949.837.3700

Medtronic B.V.  
East Bakkendreef 10  
6422 PJ Heerlen  
The Netherlands

STERILE EO, Rx ONLY, CE 0297

www.medtronic.com/manuals

Country of Origin: United States of America

REF PED2-250-10  
LOT A123456  
2019-07-16

2.50 mm / 10 mm Pipeline™ Flex Embolization Device with Shield Technology™

Legend:

LOT = Lot Number       = Expiry Date

Affected Product Lots: Expiry Date Range 2022-04-01 to 2022-06-30										
A810945	A810946	A811477	A811479	A811480	A812095	A812097	A812119	A812724	A812725	A812726
A812727	A812728	A812729	A812730	A812731	A812732	A812733	A812734	A813318	A813319	A813320
A813321	A813323	A813324	A813325	A813326	A813327	A813329	A813907	A813908	A813909	A813912
A813913	A813915	A813916	A813917	A813920	A813921	A815062	A815063	A815064	A815065	A815066
A815067	A815068	A815069	A815071	A815073	A815074	A815075	A815076	A815077	A815078	A815079
A815080	A815691	A815692	A815693	A815694	A815695	A815696	A815697	A815698	A815699	A815702
A816329	A816330	A816334	A816335	A816338	A816341	A816342	A816343	A816345	A816346	A816347
A816348	A816349	A817106	A817107	A817108	A817109	A817110	A817111	A817112	A817113	A817115
A817116	A817117	A817119	A817123	A817126	A817130	A817751	A817753	A817754	A817756	A817758
A817759	A817761	A817762	A817763	A817764	A817765	A817766	A817767	A817769	A818290	A818291
A818292	A818295	A818296	A818297	A818298	A818299	A818300	A818301	A818459	A818460	A818461
A818462	A819062	A819102	A819105	A819110	A819116	A819135	A819136	A819168	A819169	A819170
A819171	A819172	A819203	A819204	A819205	A819208	A819209	A820989	A821009	A821010	A821011
A821012	A821013	A821014	A821016	A821017	A821018	A821019	A821020	A821029	A821504	A821505
A821506	A821507	A821508	A821511	A821512	A821514	A821515	A821517	A821519	A821521	A822208
A822209	A822210	A822211	A822212	A822213	A822215	A822627	A822630	A822664	A822666	A822667
A822668	A822669	A822670	A822671	A822673	A822938	A822939	A822941	A822942	A822943	A822944
A822945	A822946	A822947	A822948	A822949	A822950	A822951	A823540	A823542	A823544	A823545
A823546	A823548	A823549	A823550	A823551	A823553	A823554	A823555	A823556	A823559	A823560
A823561	A824249	A824251	A824252	A824253	A824257	A824258	A824259	A824260	A824262	A824263
A824264	A824266	A825688	A825689	A825690	A825691	A825692	A825693	A825695	A825696	A825697
A825698	A825699	A825700	A826269	A826272	A826273	A826275	A826276	A826462	A826463	A826464
A826465	A826466	A826467	A826919	A826920	A826921	A826922	A826923	A826924	A826925	A826926
A826927	A826928	A826930	A826931	A826932	A826933	A826934	A827586	A827587	A827589	A827591
A827592	A827593	A827594	A827595	A827596	A827599	A827600	A827602	A827603	A827605	A827606
A827607	A827608	A827609	A828614	A828615	A828616	A828617	A828618	A829030	A829031	A829033
A829034	A829036	A829037	A829039	A829042	A829043	A829044	A829045	A829047	A829048	A829744
A829745	A829746	A829747	A829748	A829750	A829751	A830302	A830303	A830304	A830766	A830768
A830770	A830771	A830772	A830774	A830775	A830776	A830777	A830778	A830779	A830780	A830781
A830782	A830783	A830785	A832005	A832006	A832007	A832008	A832010	A832011	A832012	A832013
A832014	A832016	A833044	A833045	A833046	A833105	A833107	A833109	A833111	A833113	A833114
A833115	A833117	A833119	A833120	A833121	A833122	A833123	A833700	A833701	A833702	A833703
A833704	A833706	A833707	A833709	A833710	A833711	A833712	A833713	A833714	A833715	A834386

Affected Product Lots: Expiry Date Range 2022-04-01 to 2022-06-30										
A834388	A834389	A834390	A834391	A834393	A834396	A834397	A834398	A835004	A835005	A835008
A835009	A835010	A835012	A835014	A835015	A835018	A835019	A835020	A835021	A835022	A835645
A835646	A835648	A835649	A835650	A835651	A835652	A835653	A835655	A835656	A835657	A835658
A835659	A835660	A835661	A835662	A835663	A835664	A836543	A836546	A836549	A836550	A836551
A836552	A836553	A836554	A836555	A837011	A837012	A837014	A837015	A837018	A837019	A837020
A837021	A837022	A837024	A837026	A837027	A837028	A837029	A837030	A838062	A838063	A838064
A838065	A838084	A838085	A838086	A838089	A838092	A838095	A838097	A838100	A838102	A838104
A838105	A838752	A838754	A838755	A838756	A838757	A838758	A838759	A838760	A838761	A838762
A839454	A839455	A839456	A839459	A839463	A839466	A839468	A839471	A839474	A839878	A839879
A839880	A839881	A839883	A839886	A839887	A839889	A841067	A841068	A841069	A841072	A841073
A841074	A841075	A841076	A841077	A841081	A841084	A841086	A841088	A841090	A841091	A841092
A841093	A842684	A842687	A842688	A842689	A842690	A842691	A842692	A842693	A842694	A842695
A842696	A843367	A843368	A843371	A843372	A843374	A843375	A843376	A843378	A843379	A843381
A843385	A843387	A843389	A843391	A843393	A843396	A844327	A844328	A844329	A844330	A844331
A844333	A844335	A844336	A844759	A844760	A844761	A844762	A844763	A844764	A844765	A844766
A844767	A845199	A845201	A845202	A845204	A845205	A845206	A845207	A845208	A845209	A845210
A845211	A845212	A845213	A846023	A846024	A846025	A846027	A846028	A846030	A846032	A846033
A846034	A846035	A846036	A846037	A846038	A846039	A846919	A846920	A846922	A846924	A846927
A846930	A846931	A846932	A846933	A847555	A847556	A847557	A847558	A847559	A847560	A847561
A847562	A847563	A847564	A847565	A847635	A847636	A847637	A848260	A848261	A848262	A848263
A848660	A848661	A848676	A848677	A848678	A848679	A848680	A848681	A848720	A848722	A848723
A848724	A848725	A848726	A848727	A848744	A848745	A848746	A848747	A848749	A848750	A848751
A849265	A849266	A849267	A849269	A849270	A849271	A849720	A849721	A849722	A849723	A849724
A849725	A849731	A849732	A849733	A849891	A849892	A849893	A849895	A849896	A849897	A849898
A849904	A849905	A849906	A849911	A850777	A850778	A850780	A850781	A850788	A850789	A850790
A850791	A850792	A850793	A850795	A850796	A851427	A851428	A851429	A851431	A851432	A851433
A851434	A851436	A852252	A852253	A852254	A852255	A852256	A852257	A852543	A852544	A852545
A852546	A852547	A852548	A852549	A852550	A852551	A852552	A852553	A852554	A852555	A852556
A852557	A852711	A852712	A852713	A852714	A852715	A852716	A852717	A852718	A852720	A852721
A854046	A854048	A854049	A854050	A854051	A854052	A854055	A854056	A854061	A854063	A854607
A854608	A854822	A854823	A854824	A854825	A854826	A854827	A854828	A854829	A854832	A854833
A854834	A855375	A855377	A855378	A855382	A855383	A855384	A855386	A855387	A855388	A855389
A855391	A855392	A855393	A855394	A855395	A856680	A856681	A856682	A856683	A856684	A856685
A856686	A856687	A856742	A856743	A856744	A856745	A856746	A856747	A856748	A856749	A856750
A856751	A856752	A856753	A856754	A856755	A856756	A856757	A858331	A858332	A858334	A858335
A858337	A858340	A858341	A858342	A858343	A858345	A859165	A859166	A859167	A859168	A859169
A859171	A859172	A859174	A859177	A859750	A859751	A859752	A859753	A859754	A859755	A859756
A859757	A859761	A859762	A859763	A859764	A859765	A859766	A859774	A859777	A859780	A861603

**Affected Product Lots: Expiry Date Range 2022-07-01 to 2022-09-30**

A859164	A859758	A859759	A859760	A859767	A859768	A859769	A859770	A859771	A859772	A859773
A859775	A859776	A859778	A859779	A861600	A861601	A861602	A861604	A861605	A861606	A861607
A861608	A861609	A861756	A861757	A861758	A861759	A861761	A861763	A861764	A861765	A861766
A861767	A861768	A861769	A861771	A862900	A862901	A862902	A862904	A862905	A862906	A862907
A862908	A862909	A862910	A862911	A862912	A862914	A862916	A862917	A862918	A862919	A862920
A862921	A863674	A863675	A863676	A863677	A863678	A863679	A863680	A863681	A863682	A863683
A864456	A864457	A864459	A864460	A864462	A864463	A864469	A864470	A864472	A864474	A864475
A864476	A864477	A864480	A864482	A864484	A864485	A864487	A865228	A865229	A865230	A865231
A865232	A865233	A865234	A865235	A865236	A865239	A865240	A865241	A865242	A866003	A866004
A866005	A866006	A866008	A866009	A866010	A866011	A866012	A866014	A866016	A866017	A866018
A866019	A866021	A866023	A866025	A866412	A867208	A867209	A867210	A867212	A867213	A867214
A867215	A867216	A867713	A867714	A867715	A867716	A867717	A867718	A867719	A867721	A867722
A867723	A867838	A867839	A867840	A867841	A867843	A867844	A867845	A867846	A867847	A867848
A867849	A868552	A868555	A868564	A868565	A868566	A868567	A868568	A868571	A868572	A868573
A869078	A869079	A869081	A869082	A869083	A869085	A869087	A869088	A869091	A869092	A869097
A869098	A869101	A869102	A869105	A869897	A869898	A869899	A869900	A869901	A869902	A869903
A869904	A869905	A869906	A869907	A869908	A870618	A870621	A870625	A870630	A870631	A870632
A871380	A871382	A871384	A871386	A871390	A871391	A871392	A871393	A871636	A871637	A871639
A871640	A871933	A871934	A871935	A871936	A871937	A871938	A871941	A871943	A871944	A871947
A871949	A871951	A871952	A871953	A871954	A871955	A873187	A873188	A873189	A873190	A873191
A873192	A873193	A873194	A873195	A873197	A873198	A873200	A873201	A873204	A873205	A874035
A874036	A874039	A874042	A874045	A874046	A874049	A874050	A874053	A874057	A874059	A874062
A874064	A875013	A875015	A875017	A875022	A875030	A875033	A875034	A875035	A875036	A875037
A875039	A875042	A875048	A875051	A875056	A875062	A876738	A876740	A876741	A876742	A876743
A876744	A876745	A876746	A876747	A876748	A876749	A877514	A877516	A877517	A877518	A877519
A877520	A877521	A877523	A877524	A877525	A877526	A877527	A877532	A877533	A877534	A878414
A878417	A878418	A878419	A878420	A878840	A878842	A878844	A878845	A878846	A878848	A878849
A878850	A878851	A878853	A878854	A878855	A878856	A879717	A879718	A879719	A879720	A879721
A879723	A879724	A879725	A879726	A879727	A879728	A879731	A879732	A879733	A879734	A879735
A880355	A880357	A880359	A880361	A880362	A880363	A880365	A880366	A880367	A880368	A880369
A880370	A880371	A880372	A880373	A881403	A881405	A881406	A881407	A881408	A881409	A881410
A881412	A881414	A881415	A881416	A881417	A881418	A881419	A881420	A882122	A882134	A882135
A882136	A882137	A882138	A882139	A882141	A882143	A882146	A882147	A882796	A882797	A882798
A882799	A882800	A882801	A882802	A882804	A882805	A882806	A883575	A883576	A883577	A883578
A883579	A883581	A883582	A883583	A883585	A883586	A883587	A883588	A883589	A883590	A883591
A883593	A884540	A884541	A884542	A884543	A884544	A884546	A884549	A884551	A884552	A884576
A884579	A884580	A884581	A884583	A884585	A884589	A884594	A884598	A885863	A885864	A885865
A885866	A885867	A885868	A885869	A885870	A885871	A885872	A885873	A885874	A885877	A885880
A886638	A886640	A886642	A886644	A886647	A886649	A886650	A886651	A886652	A886653	A886654

**Affected Product Lots: Expiry Date Range 2022-07-01 to 2022-09-30**

A886655	A886656	A887300	A887301	A887302	A887303	A887304	A887306	A887308	A887311	A887314
A887316	A887317	A887318	A887319	A887320	A887321	A887928	A887929	A887930	A887931	A887932
A887933	A887934	A887937	A887938	A887940	A887941	A888378	A888379	A888380	A888381	A888383
A889026	A889027	A889028	A889029	A889033	A889034	A889035	A889037	A889039	A889041	A890031
A890034	A890035	A890036	A890037	A890038	A890039	A890041	A890605	A890606	A890609	A890612
A890613	A890614	A890615	A890619	A890623	A890625	A890626	A890627	A890628	A890629	A890630
A890631	A894159	A894160	A894161	A894162	A894163	A894164	A894165	A894393	A894394	A894396
A894397	A894398	A894400	A894401	A894402	A894404	A894405	A894406	A894597	A894599	A894600
A894601	A894602	A894603	A894604	A894605	A894606	A894607	A894609	A894611	A894613	A894614
A895293	A895294	A895295	A895296	A895302	A895303	A895304	A895305	A895306	A895307	A895308
A895309	A895310	A895312	A895313	A895314	A895315	A896153	A896154	A896155	A896157	A896158
A896159	A896160	A896161	A896162	A896163	A896936	A896937	A896938	A896941	A896942	A896944
A896945	A896946	A896947	A896948	A897345	A897347	A897348	A897350	A897354	A897358	A897361
A897363	A897365	A897367	A897369	A897371	A897373	A897375	A897377	A897378	A897379	A898544
A898545	A898546	A898549	A898551	A898552	A898555	A898557	A898558	A898559	A898562	A898564
A899357	A899360	A899361	A899362	A899364	A899366	A899368	A899369	A899370	A899372	A899373
A899375	A899376	A900253	A900254	A900255	A900256	A900258	A900260	A900262	A900263	A900265
A900266	A900736	A900739	A900740	A900741	A900742	A900744	A900745	A900746	A900747	A900749
A900750	A900752	A900753	A900754	A900755	A900756	A900757	A900758	A900759	A902089	A902090
A902091	A902092	A902093	A902094	A902095	A902096	A902097	A902098	A902100	A902101	A902102
A902103	A902104	A902106	A902107	A902751	A902753	A902755	A902756	A902758	A902759	A902760
A902761	A902762	A902764	A902767	A902772	A903537	A903538	A903540	A903541	A903543	A903544
A903545	A903560	A903561	A903562	A903563	A903564	A903565	A903566	A903567	A904230	A904232
A904234	A904237	A904239	A904241	A904243	A904246	A904252	A904253	A904254	A904255	A904256
A904257	A904258	A904870	A904871	A904873	A904875	A904876	A904906	A906053	A906054	A906055
A906057	A906062	A906063	A906064	A906065	A906066	A906067	A906068	A906069	A906070	A906071
A906072	A906073	A906074	A906076	A906077	A906079	A906080	A906724	A906725	A906726	A906727
A906728	A906729	A906730	A906731	A906733	A906734	A906735	A906736	A906737	A907480	A907481
A907482	A907483	A907484	A907490	A907491	A907496	A907497	A907498	A907499	A907500	A908288
A908291	A908292	A908295	A908296	A908626	A908627	A908628	A908629	A908631	A908633	A908634
A908635	A908636	A909350	A909351	A909353	A909354	A909355	A909356	A909357	A909358	A909360
A909361	A909362	A909363	A909370	A909371	A909372	A909373	A909375	A909377	A909378	A910385
A910387	A910389	A910390	A910392	A910393	A910394	A910395	A910396	A910397	A910398	A910918
A910919	A910920	A910922	A910924	A910925	A910926	A910927	A910928	A910929	A911793	A911794
A911795	A911797	A911798	A911799	A911800	A911801	A911802	A912441		A912447	

Affected Product Lots: Expiry Date Range 2022-10-01 to 2022-10-31										
A909374	A910391	A910923	A910930	A911796	A911803	A912440	A912442	A912443	A912444	A912445
A912449	A912451	A913140	A913143	A913144	A913145	A913148	A913149	A913155	A913156	A913157
A913158	A913160	A913162	A914075	A914076	A914077	A914141	A914142	A914143	A914144	A914206
A914207	A914208	A914209	A914210	A914211	A914212	A914214	A914804	A914805	A914806	A914808
A914809	A914810	A914811	A914812	A914814	A914815	A914816	A914817	A915508	A915516	A915518
A915520	A915521	A915523	A915524	A915527	A915529	A915537	A915539	A915540	A915541	A915542
A916289	A916290	A916291	A916292	A916293	A916294	A916295	A916296	A916297	A916298	A916299
A916300	A917147	A917148	A917150	A917152	A917154	A917155	A917157	A917159	A917160	A917837
A917839	A918056	A918057	A918058	A918061	A918062	A918063	A918065	A918066	A918068	A918069
A918070										

Affected Product Lots: Expiry Date Range 2023-04-01 to 2023-05-31											
B002744	B002749	B002757	B005837	B005838	B005839	B005840	B005844	B005846	B005848	B005849	
B005850	B005851	B005852	B005853	B005855	B005859	B005860	B005862	B005863	B005864	B005865	
B005867	B007366	B007367	B007368	B007369	B007370	B007371	B007372	B007373	B007374	B007375	
B007376	B007377	B007378	B007400	B007401	B007402	B007403	B007404	B007405	B007406	B007407	
B007408	B008202	B008203	B008204	B008206	B008207	B008208	B008215	B008216	B008217	B008219	
B013889	B015360	B016955	B016957	B016960	B016962	B016964	B016966	B017057	B017058	B017059	
B017067	B017069	B017070	B017071	B017072	B017073	B017074	B017075	B017076	B017077	B017078	
B017079	B017080	B017082	B017083	B017084	B017085	B018619	B018620	B018621	B018622	B018624	
B018625	B018627	B018628	B018629	B018630	B018631	B018632	B019181	B019182	B019184	B019186	
B027513	B027921									B031111	