

4 digit EC number	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Pattern 7
1.1.1.1	PS00044	PS00059					
1.1.1.2	PS00059	PS00933					
1.1.1.205	PS00487	PS00912					
1.1.1.23	PS00611	PS01095					
1.1.1.3	PS00165	PS01042					
1.1.1.3	PS00318	PS01042					
1.1.1.3	PS01042						
1.1.1.34	PS00066	PS00120	PS00318	PS50065			
1.1.1.34	PS00066	PS00318	PS00879	PS01192	PS50065	PS50156	
1.1.1.34	PS00066	PS00318	PS01192	PS50065	PS50156		
1.1.1.34	PS00066	PS00318	PS50065	PS50156			
1.1.1.38	PS00217	PS00331					
1.1.1.40	PS00120	PS00331					
1.1.1.44	PS00461						
1.1.1.85	PS00307	PS00470					
1.1.1.94	PS00449	PS00957					
1.1.1.95	PS00065	PS00306	PS00670	PS00671			
1.1.2.3	PS00191	PS00557	PS50255				
1.1.3.15	PS00044	PS00557					
1.1.99.5	PS00977						
1.1.99.5	PS00977	PS00978					
1.10.3.1	PS00210	PS00497	PS00498				
1.11.1.6	PS00047	PS00437	PS00438				
1.11.1.6	PS00437						
1.11.1.6	PS00437	PS00438					
1.11.1.6	PS00437	PS00438	PS01034				
1.11.1.6	PS00438						
1.11.1.9	PS00014	PS00460	PS00763				
1.13.11.31	PS00081	PS00659	PS00711	PS50095			
1.13.11.42	PS00876	PS00877					
1.14.11.4	PS01325						
1.14.13.39	PS50902	PS60001					
1.14.17.3	PS00084	PS00085	PS50320				
1.14.19.1	PS00191	PS00476	PS50255				
1.14.19.1	PS00476						
1.14.19.2	PS00574						
1.14.99.3	PS00593						
1.15.1.1	PS00087	PS00332					
1.15.1.1	PS00088						
1.17.4.1	PS00089	PS00185					
1.17.4.1	PS00089	PS00583					
1.17.4.1	PS00368						
1.17.4.1	PS00368	PS50817	PS50818	PS50819			
1.18.6.1	PS00065	PS00692	PS00746				
1.2.1.12	PS00071	PS00584					
1.2.1.41	PS01223						
1.2.1.59	PS00071	PS00422					
1.3.1.26	PS01298						
1.3.1.70	PS01017	PS01018	PS50319				
1.3.3.1	PS00911						
1.3.3.1	PS00911	PS00912					

1.3.3.3	PS01021						
1.3.99.7	PS00044	PS00073					
1.4.3.13	PS00926						
1.4.3.13	PS00926	PS50328					
1.4.3.3	PS00445	PS00677					
1.4.3.5	PS00579	PS01064					
1.4.3.5	PS01064						
1.4.3.6	PS00191	PS01164					
1.4.3.6	PS01164						
1.4.3.6	PS01164	PS01165					
1.5.1.2	PS00443	PS00521					
1.5.1.3	PS00075						
1.5.1.3	PS00075	PS00152					
1.6.5.3	PS00284	PS50314					
1.6.5.3	PS00443	PS00583					
1.6.5.3	PS00667	PS00668	PS50314				
1.6.5.3	PS00667	PS00668	PS50320				
1.6.5.3	PS00668	PS50314					
1.6.5.3	PS50314	PS50320					
1.6.5.3	PS50319	PS50320					
1.6.99.5	PS00198	PS00551	PS00642	PS00643			
1.6.99.5	PS00503	PS00535					
1.6.99.5	PS00535	PS00542					
1.6.99.5	PS00644	PS00645	PS01039				
1.7.3.3	PS00366						
1.9.3.1	PS00077	PS00078					
1.9.3.1	PS00077	PS00267					
1.9.3.1	PS00077	PS00659					
1.9.3.1	PS00077	PS50253					
1.9.3.1	PS00078	PS00527					
1.9.3.1	PS00078	PS50320					
1.9.3.1	PS00848						
1.9.3.1	PS01329						
1.97.1.4	PS01087						
2.1.1.107	PS00732	PS00839	PS00840				
2.1.1.35	PS01230						
2.1.1.35	PS01230	PS01231					
2.1.1.43	PS00200	PS50280	PS50867	PS50868			
2.1.1.43	PS00354	PS01359	PS50016	PS50089	PS50216	PS50280	PS50868
2.1.1.43	PS00598	PS50013	PS50280	PS50867	PS50868		
2.1.1.43	PS50280	PS50867					
2.1.1.43	PS50280	PS50867	PS50868				
2.1.1.48	PS01131						
2.1.1.63	PS00041	PS00374	PS01124				
2.1.1.73	PS00050	PS00094					
2.1.1.77	PS00014	PS01279					
2.1.1.77	PS00445	PS01279					
2.1.1.77	PS01279						
2.1.1.80	PS50123						
2.1.2.1	PS00096						
2.2.1.1	PS00226	PS00802					
2.2.1.6	PS00044	PS00187					

2.2.1.6	PS00187	PS00659					
2.2.1.7	PS00187	PS00801					
2.2.1.7	PS00187	PS00801	PS00802				
2.3.1.28	PS00100						
2.3.1.48	PS00633	PS01357	PS50014	PS50134	PS50135		
2.3.1.97	PS00591	PS00975	PS00976				
2.3.1.97	PS00975	PS00976					
2.3.2.2	PS00462						
2.3.3.10	PS01226						
2.3.3.8	PS00399	PS01216	PS01217				
2.3.3.9	PS00510						
2.4.1.1	PS00102						
2.4.1.17	PS00011	PS00375					
2.4.1.62	PS00335						
2.4.2.14	PS00103	PS00443					
2.4.2.17	PS01316						
2.4.2.31	PS01291						
2.4.2.7	PS00103	PS50326					
2.5.1.15	PS00792						
2.5.1.15	PS00792	PS00793					
2.5.1.15	PS00793						
2.5.1.16	PS00228	PS01330					
2.5.1.19	PS00104	PS00885	PS01118				
2.5.1.19	PS00885						
2.5.1.21	PS01044	PS01045					
2.5.1.31	PS00962	PS01066					
2.5.1.31	PS01066						
2.5.1.47	PS00165	PS00901					
2.5.1.47	PS00217	PS00901					
2.5.1.6	PS00376						
2.5.1.6	PS00376	PS00377					
2.5.1.6	PS00377						
2.6.1.1	PS00105	PS00217					
2.6.1.1	PS00105	PS01319					
2.6.1.11	PS00196	PS00600					
2.6.1.11	PS00600	PS01067					
2.6.1.16	PS00443	PS01039					
2.6.1.16	PS00443	PS50817	PS50818	PS50819			
2.7.1.107	PS01069						
2.7.1.11	PS00014	PS00433					
2.7.1.112	PS00021	PS00109	PS00239	PS50011	PS50038	PS50070	
2.7.1.112	PS00021	PS00109	PS50011	PS50038	PS50070		
2.7.1.112	PS00109	PS00214	PS00239	PS50011			
2.7.1.112	PS00109	PS00239	PS00317	PS50011			
2.7.1.112	PS00109	PS00239	PS00453	PS50011			
2.7.1.112	PS00109	PS00239	PS01118	PS50011			
2.7.1.112	PS00109	PS00239	PS50011				
2.7.1.112	PS00109	PS00240	PS50011				
2.7.1.112	PS00109	PS00406	PS01132	PS50001	PS50011		
2.7.1.112	PS00109	PS00501	PS50011	PS50108			
2.7.1.112	PS00109	PS00790	PS00791	PS50011	PS50105		
2.7.1.112	PS00109	PS50001	PS50011				

2.7.1.112	PS00109	PS50001	PS50011	PS50057			
2.7.1.112	PS00109	PS50001	PS50011	PS50133			
2.7.1.112	PS00109	PS50011	PS50057				
2.7.1.112	PS00109	PS50011	PS50105				
2.7.1.112	PS00109	PS50011	PS50268				
2.7.1.137	PS00915	PS50077	PS50290				
2.7.1.154	PS00915	PS00916	PS50195	PS50290			
2.7.1.19	PS00567						
2.7.1.21	PS00603						
2.7.1.30	PS00445	PS00761	PS00933				
2.7.1.30	PS00445	PS00933	PS00962				
2.7.1.37	PS00041	PS00915	PS00916	PS50290			
2.7.1.37	PS00092	PS00108	PS50011				
2.7.1.37	PS00108	PS00152	PS01351	PS50011			
2.7.1.37	PS00108	PS00191	PS50011				
2.7.1.37	PS00108	PS00284	PS50011				
2.7.1.37	PS00108	PS00381	PS50011	PS50125			
2.7.1.37	PS00108	PS00479	PS50011	PS50081	PS50898		
2.7.1.37	PS00108	PS00501	PS50011				
2.7.1.37	PS00108	PS01351	PS50011				
2.7.1.37	PS00108	PS50006	PS50011				
2.7.1.37	PS00108	PS50011	PS50012				
2.7.1.37	PS00108	PS50011	PS50017				
2.7.1.37	PS00108	PS50011	PS50078				
2.7.1.37	PS00108	PS50011	PS50105				
2.7.1.37	PS00108	PS50011	PS50108				
2.7.1.37	PS00108	PS50011	PS50195				
2.7.1.37	PS00108	PS50011	PS50209				
2.7.1.39	PS00044	PS00627					
2.7.1.56	PS00464	PS00583	PS00584				
2.7.1.6	PS00059	PS00106	PS00627				
2.7.1.6	PS00106	PS00627					
2.7.1.69	PS00044	PS01035					
2.7.1.69	PS00287	PS01035					
2.7.1.69	PS00369	PS00372					
2.7.1.69	PS00371	PS01035					
2.7.1.69	PS00372	PS00387					
2.7.1.69	PS01035						
2.7.2.1	PS00104	PS01075	PS01076				
2.7.2.1	PS00445	PS01075	PS01076				
2.7.2.1	PS00758	PS01075	PS01076				
2.7.2.11	PS00153	PS00902					
2.7.2.11	PS00327	PS00902					
2.7.2.11	PS00659	PS00902					
2.7.2.11	PS00902						
2.7.2.11	PS00902	PS50890					
2.7.2.3	PS00111						
2.7.2.3	PS00111	PS00453					
2.7.2.4	PS00324						
2.7.3.9	PS00369	PS00370	PS00742				
2.7.4.3	PS00113	PS00202					
2.7.4.3	PS00113	PS50052					

2.7.4.9	PS01331						
2.7.6.1	PS00103	PS00114					
2.7.6.1	PS00103	PS00114	PS00144				
2.7.6.1	PS00114						
2.7.7.12	PS00117						
2.7.7.12	PS01163						
2.7.7.27	PS00808						
2.7.7.27	PS00808	PS00809					
2.7.7.27	PS00808	PS00809	PS00810				
2.7.7.27	PS00808	PS00810					
2.7.7.27	PS00809						
2.7.7.27	PS00809	PS00810					
2.7.7.3	PS01190						
2.7.7.41	PS01315						
2.7.7.56	PS01277						
2.7.7.59	PS00152	PS00228					
2.7.7.6	PS00011	PS00466					
2.7.7.6	PS00115						
2.7.7.6	PS00120	PS01166					
2.7.7.6	PS00163	PS00466	PS01030				
2.7.7.6	PS00192	PS01166					
2.7.7.6	PS00283	PS01166					
2.7.7.6	PS00327	PS01166					
2.7.7.6	PS00446						
2.7.7.6	PS00466	PS01030					
2.7.7.6	PS00489	PS00900					
2.7.7.6	PS01030						
2.7.7.6	PS01110						
2.7.7.6	PS01111						
2.7.7.6	PS01112						
2.7.7.6	PS01154						
2.7.7.6	PS01166						
2.7.7.60	PS00485	PS01295					
2.7.7.7	PS00044	PS00116					
2.7.7.7	PS00116	PS00119					
2.7.7.7	PS00116	PS00214					
2.7.7.7	PS00116	PS00214	PS50817	PS50818	PS50819		
2.7.7.7	PS00116	PS50077	PS50817	PS50818	PS50819		
2.7.7.7	PS00116	PS50817	PS50818	PS50819			
2.7.7.7	PS00307	PS00447					
2.7.7.7	PS00307	PS00447	PS00449				
2.7.7.7	PS00447	PS00659					
2.7.8.13	PS00287	PS01347	PS01348				
2.7.8.13	PS01347	PS01348					
2.7.8.13	PS01348						
2.8.3.5	PS01273	PS01274					
3.1.1.1	PS00014	PS00122	PS00941				
3.1.1.1	PS00120	PS00122	PS00941				
3.1.1.11	PS00503	PS00800					
3.1.1.29	PS00217	PS01195	PS01196				
3.1.1.29	PS00217	PS01196					
3.1.1.29	PS01195						

3.1.1.29	PS01195	PS01196					
3.1.1.29	PS01196						
3.1.1.3	PS01173	PS01174					
3.1.1.61	PS50110	PS50122					
3.1.1.61	PS50122						
3.1.1.74	PS00120	PS00155					
3.1.1.74	PS00120	PS00155	PS00931				
3.1.1.74	PS00155						
3.1.1.74	PS00155	PS00931					
3.1.2.15	PS00152	PS00972	PS00973	PS50235			
3.1.2.15	PS00228	PS00972	PS00973	PS50235			
3.1.2.15	PS00299	PS00972	PS00973	PS50053	PS50235		
3.1.2.15	PS00304	PS00972	PS00973	PS50206	PS50235		
3.1.2.15	PS00572	PS00972	PS00973	PS50206	PS50235		
3.1.2.15	PS00972	PS00973	PS50030	PS50235			
3.1.2.15	PS00972	PS00973	PS50144	PS50235			
3.1.2.15	PS00972	PS00973	PS50206	PS50235			
3.1.2.15	PS00972	PS00973	PS50235				
3.1.2.15	PS00972	PS00973	PS50235	PS50330			
3.1.2.15	PS00972	PS50235					
3.1.2.15	PS00973	PS50235					
3.1.2.23	PS01328						
3.1.21.1	PS00918						
3.1.21.1	PS00918	PS00919					
3.1.21.1	PS00919						
3.1.22.4	PS01321						
3.1.26.3	PS00517	PS50142					
3.1.3.11	PS00124	PS00165					
3.1.3.16	PS00125	PS00732					
3.1.3.2	PS01157						
3.1.3.48	PS00383	PS00660	PS00661	PS50055	PS50056	PS50057	
3.1.3.48	PS00383	PS00660	PS00661	PS50055	PS50056	PS50057	PS50106
3.1.3.48	PS00383	PS00740	PS50055	PS50056	PS50060		
3.1.3.48	PS00383	PS50001	PS50055	PS50056			
3.1.3.48	PS00383	PS50055	PS50056	PS50191			
3.1.3.48	PS00383	PS50055	PS50056	PS50206			
3.1.30.2	PS01070						
3.1.31.1	PS01123	PS01284	PS50830				
3.1.4.11	PS50001	PS50002	PS50003	PS50004	PS50007	PS50008	
3.1.4.11	PS50004	PS50007	PS50008				
3.1.4.11	PS50007	PS50008					
3.1.4.17	PS00126						
3.1.4.17	PS00126	PS50110					
3.1.4.17	PS00126	PS50319					
3.1.4.17	PS00607						
3.1.4.3	PS00384						
3.1.4.3	PS00384	PS50095					
3.1.6.8	PS00149	PS00262	PS00523				
3.1.8.1	PS01322	PS01323					
3.10.1.1	PS00014	PS00149	PS00523				
3.2.1.132	PS60000						
3.2.1.14	PS00014	PS00583	PS01095				

3.2.1.14	PS00026	PS00773	PS00774				
3.2.1.14	PS00026	PS01095					
3.2.1.14	PS00561	PS01095					
3.2.1.14	PS00583	PS01095					
3.2.1.14	PS00773	PS00774					
3.2.1.15	PS00071	PS00502					
3.2.1.17	PS00953						
3.2.1.21	PS00559	PS00775					
3.2.1.22	PS00217	PS01324					
3.2.1.23	PS01182						
3.2.1.28	PS00387	PS00927	PS00928				
3.2.1.28	PS00927						
3.2.1.28	PS00927	PS00928					
3.2.1.3	PS00820						
3.2.1.4	PS00214	PS00659					
3.2.1.4	PS00443	PS00659					
3.2.1.4	PS00448	PS00592	PS00698				
3.2.1.4	PS00561	PS00592	PS00698				
3.2.1.4	PS00561	PS00659					
3.2.1.4	PS00561	PS01140					
3.2.1.4	PS00562	PS00591					
3.2.1.4	PS00562	PS00659					
3.2.1.4	PS00562	PS01140					
3.2.1.4	PS00562	PS01140	PS50842				
3.2.1.4	PS00592						
3.2.1.4	PS00592	PS00698					
3.2.1.4	PS00698						
3.2.1.4	PS01140						
3.2.1.51	PS00385						
3.2.1.52	PS00775	PS01044					
3.2.1.67	PS00193	PS00502					
3.2.1.73	PS00217	PS01034					
3.2.1.8	PS00591	PS00776	PS00777	PS50327			
3.2.1.8	PS00776	PS00777					
3.2.2.21	PS00516						
3.2.2.22	PS00275						
3.2.2.23	PS01242						
3.3.1.1	PS00738	PS00739					
3.3.1.1	PS00739						
3.4.11.1	PS00277	PS00631					
3.4.11.14	PS00392	PS00758	PS00759				
3.4.11.18	PS00680						
3.4.11.18	PS01202						
3.4.13.19	PS00869						
3.4.19.3	PS01333						
3.4.19.3	PS01333	PS01334					
3.4.19.3	PS01334						
3.4.21.101	PS00138	PS50093					
3.4.21.19	PS00672	PS00673					
3.4.21.53	PS01046						
3.4.21.61	PS00137	PS00138	PS00307				
3.4.21.9	PS00740	PS01180	PS01209	PS50024	PS50060	PS50068	PS50287

3.4.21.92	PS00381	PS00382					
3.4.21.96	PS00137	PS00138	PS50847				
3.4.22.36	PS00455	PS01121	PS01122	PS50207	PS50208	PS50209	
3.4.22.36	PS01121	PS01122	PS50207	PS50208	PS50209		
3.4.23.36	PS00855						
3.4.24.57	PS01016						
3.4.25.1	PS00388						
3.4.25.1	PS00388	PS00854					
3.4.25.1	PS00761	PS00854					
3.4.25.1	PS00854						
3.5.1.1	PS00144	PS00445	PS00917				
3.5.1.5	PS00024	PS00145	PS01120				
3.5.1.5	PS00145						
3.5.1.5	PS00145	PS00403	PS01120				
3.5.1.5	PS00145	PS01120					
3.5.1.5	PS01120						
3.5.2.3	PS00482	PS00483					
3.5.2.3	PS00483						
3.5.2.5	PS00482	PS01137					
3.5.2.6	PS00336						
3.5.2.6	PS00337						
3.5.2.6	PS00743	PS00744					
3.5.4.16	PS00859						
3.5.4.16	PS00859	PS00860					
3.5.99.6	PS01161						
3.6.1.13	PS00287	PS00893					
3.6.1.7	PS00150	PS00151					
3.6.3.1	PS00154	PS00338					
3.6.3.12	PS00154	PS00591	PS01229				
3.6.3.14	PS00044	PS00449					
3.6.3.14	PS00095	PS00152					
3.6.3.14	PS00152	PS50817	PS50818				
3.6.3.14	PS00152	PS50817	PS50818	PS50819			
3.6.3.14	PS00152	PS50817	PS50819				
3.6.3.14	PS00449	PS50319					
3.6.3.14	PS00449	PS50320					
3.6.3.4	PS00154	PS50320					
3.6.3.6	PS00154	PS00214					
3.6.3.6	PS00154	PS00962					
3.6.3.8	PS00154	PS00228					
3.8.1.4	PS01205						
4.1.1.15	PS00119	PS00392					
4.1.1.15	PS00392	PS01039					
4.1.1.17	PS00196	PS00703					
4.1.1.23	PS00156						
4.1.1.31	PS00393						
4.1.1.31	PS00393	PS00781					
4.1.1.32	PS00505						
4.1.1.37	PS00066	PS00906	PS00907				
4.1.1.37	PS00906						
4.1.1.37	PS00906	PS00907					
4.1.1.37	PS00906	PS00907	PS01039				



4.1.1.37	PS00907						
4.1.1.49	PS00532						
4.1.1.50	PS00591	PS01336					
4.1.1.50	PS01336						
4.1.2.13	PS00152	PS00602	PS00806				
4.1.2.13	PS00158						
4.1.2.13	PS00602						
4.1.2.13	PS00602	PS00806					
4.1.2.13	PS00806						
4.1.2.14	PS00159	PS00160	PS00165				
4.1.3.27	PS00442	PS00690					
4.1.3.3	PS00217	PS00228	PS00665	PS00666			
4.1.3.3	PS00217	PS00665	PS00666				
4.1.3.4	PS01062						
4.1.99.3	PS00104	PS00394	PS00691				
4.1.99.3	PS00230	PS00394	PS00691				
4.1.99.3	PS01083	PS01084					
4.2.1.1	PS00704	PS00705					
4.2.1.1	PS00705						
4.2.1.10	PS01028						
4.2.1.10	PS01029						
4.2.1.19	PS00954						
4.2.1.19	PS00955						
4.2.1.20	PS00167						
4.2.1.20	PS00167	PS00168					
4.2.1.20	PS00167	PS00201					
4.2.1.20	PS00167	PS50007					
4.2.1.20	PS00168						
4.2.1.24	PS00169						
4.2.1.3	PS00099	PS00450	PS01244				
4.2.1.49	PS01233						
4.2.1.52	PS00041	PS00665	PS00666				
4.2.1.52	PS00583	PS00665	PS00666				
4.2.1.70	PS00104	PS01129	PS50889				
4.2.1.70	PS01129						
4.2.1.70	PS01149						
4.2.1.70	PS01268						
4.2.3.12	PS00987						
4.2.3.12	PS00987	PS00988					
4.2.3.3	PS01335						
4.2.3.5	PS00217	PS00787	PS00788	PS00789			
4.2.3.5	PS00787	PS00788					
4.2.3.5	PS00787	PS00788	PS00789				
4.2.3.5	PS00787	PS00789					
4.2.3.5	PS00788	PS00789					
4.2.99.18	PS00726	PS00727	PS00728	PS50800			
4.3.1.19	PS00043	PS00165					
4.3.1.3	PS00217	PS00488					
4.3.1.8	PS00533						
4.3.2.1	PS00163	PS00284					
4.3.2.1	PS00163	PS00636					
4.4.1.1	PS00087	PS00868					

4.4.1.17	PS00821	PS00822					
4.4.1.17	PS00822						
4.4.1.5	PS00934	PS00935					
4.6.1.1	PS00137	PS00452	PS50125				
4.6.1.1	PS00177	PS50125					
4.6.1.1	PS00452	PS50125	PS50839				
4.6.1.1	PS00659	PS50125	PS50200				
4.6.1.1	PS01092	PS01093					
4.6.1.1	PS01103	PS50125	PS50200				
4.6.1.1	PS50110	PS50125					
4.6.1.12	PS01350						
4.99.1.1	PS00534						
5.1.1.1	PS00395						
5.1.1.7	PS01326						
5.1.3.1	PS01085						
5.1.3.1	PS01085	PS01086					
5.2.1.8	PS00014	PS00170	PS50072				
5.2.1.8	PS00014	PS00453	PS50059				
5.2.1.8	PS00014	PS00454	PS50059				
5.2.1.8	PS00014	PS50059					
5.2.1.8	PS00170	PS50072					
5.2.1.8	PS00453	PS00454	PS50059				
5.2.1.8	PS00453	PS50059					
5.2.1.8	PS00454	PS50059					
5.2.1.8	PS01096	PS50198					
5.2.1.8	PS50072						
5.2.1.8	PS50198						
5.3.1.1	PS00171						
5.3.1.1	PS00171	PS00389					
5.3.1.5	PS00172	PS00173					
5.3.1.8	PS00965	PS00966					
5.3.1.8	PS00966						
5.3.1.9	PS00174						
5.3.1.9	PS00174	PS00230					
5.3.1.9	PS00174	PS00765					
5.3.1.9	PS00174	PS00765	PS50097				
5.3.1.9	PS00765						
5.4.3.8	PS00228	PS00600					
5.4.99.2	PS00043	PS00544					
5.4.99.2	PS00268	PS00544					
5.4.99.2	PS00544						
5.4.99.7	PS00196	PS01074					
5.99.1.2	PS00043	PS00396					
5.99.1.2	PS00396						
5.99.1.3	PS00087	PS00177					
5.99.1.3	PS00154	PS00177					
5.99.1.3	PS00177	PS00217					
5.99.1.3	PS00177	PS50817	PS50818				
6.1.1.11	PS00595	PS50862					
6.1.1.11	PS01039	PS50862					
6.1.1.12	PS00527	PS50862					
6.1.1.14	PS00284	PS50862					

6.1.1.14	PS00307	PS00762	PS50862				
6.1.1.14	PS00307	PS50862					
6.1.1.14	PS50861						
6.1.1.20	PS00197	PS50862					
6.1.1.20	PS00850	PS50886					
6.1.1.21	PS00485	PS50862					
6.1.1.3	PS00131	PS50862					
6.1.1.7	PS00087	PS50860					
6.1.1.7	PS00268	PS50860					
6.1.1.7	PS00284	PS50860					
6.1.1.7	PS00307	PS50860					
6.1.1.7	PS50860						
6.1.1.7	PS50860	PS50862					
6.3.1.2	PS00059	PS00180	PS00181				
6.3.1.2	PS00180	PS00181					
6.3.1.2	PS00180	PS00181	PS00182				
6.3.1.2	PS00181						
6.3.1.2	PS00181	PS00182					
6.3.2.17	PS00282	PS01011	PS01012				
6.3.2.17	PS01012						
6.3.2.19	PS00183	PS50127					
6.3.2.19	PS50127						
6.3.2.4	PS00843	PS00844					
6.3.2.4	PS00844						
6.3.2.6	PS01057						
6.3.2.6	PS01058						
6.3.2.9	PS01011	PS01319					
6.3.4.13	PS00184	PS00583					
6.3.4.2	PS00214	PS00442					
6.3.4.3	PS00721	PS00722					
6.3.4.4	PS00014	PS00513	PS01266				
6.3.4.4	PS00014	PS01266					
6.3.4.4	PS00300	PS01266					
6.3.4.4	PS00513						
6.3.4.4	PS00513	PS01266					
6.3.4.4	PS01266						
6.3.4.5	PS00148	PS00564	PS00565				
6.3.4.5	PS00564						
6.3.4.5	PS00564	PS00565					
6.3.5.1	PS00591	PS50263					
6.3.5.2	PS00011	PS00442					
6.3.5.2	PS00228	PS00442					
6.3.5.3	PS00165	PS00659					
6.3.5.5	PS00442	PS00912					
6.5.1.1	PS00333	PS00347	PS00697	PS50064	PS50160	PS50172	
6.5.1.1	PS00333	PS00453	PS00697	PS50160			
6.5.1.1	PS00333	PS00697	PS50160				
6.5.1.1	PS00333	PS50160					
6.5.1.2	PS01055	PS01056					
6.5.1.2	PS01055	PS01056	PS50172				

3 digit EC number	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Pattern 7
1.1.1	PS00044	PS00059					
1.1.1	PS00059	PS00933					
1.1.1	PS00065	PS00306	PS00670	PS00671			
1.1.1	PS00066	PS00120	PS00318	PS50065			
1.1.1	PS00066	PS00318	PS00879	PS01192	PS50065	PS50156	
1.1.1	PS00066	PS00318	PS01192	PS50065			
1.1.1	PS00066	PS00318	PS01192	PS50065	PS50156		
1.1.1	PS00066	PS00318	PS50065				
1.1.1	PS00066	PS00318	PS50065	PS50156			
1.1.1	PS00066	PS50065					
1.1.1	PS00068						
1.1.1	PS00120	PS00331					
1.1.1	PS00165	PS01042					
1.1.1	PS00217	PS00331					
1.1.1	PS00307	PS00470					
1.1.1	PS00318	PS01042					
1.1.1	PS00318	PS01192	PS50065				
1.1.1	PS00331						
1.1.1	PS00449	PS00957					
1.1.1	PS00461						
1.1.1	PS00470						
1.1.1	PS00487	PS00912					
1.1.1	PS00611	PS01095					
1.1.1	PS00957						
1.1.1	PS01042						
1.1.1	PS50065						
1.1.2	PS00191	PS00557	PS50255				
1.1.3	PS00044	PS00557					
1.1.99	PS00363	PS00364					
1.1.99	PS00364						
1.1.99	PS00977						
1.1.99	PS00977	PS00978					
1.10.3	PS00210	PS00497	PS00498				
1.11.1	PS00014	PS00460	PS00763				
1.11.1	PS00047	PS00437	PS00438				
1.11.1	PS00437						
1.11.1	PS00437	PS00438					
1.11.1	PS00437	PS00438	PS01034				
1.11.1	PS00438						
1.11.1	PS50873						
1.13.11	PS00081	PS00659	PS00711	PS50095			
1.13.11	PS00081	PS50095					
1.13.11	PS00082						
1.13.11	PS00083						
1.13.11	PS00711	PS50095					
1.13.11	PS00876	PS00877					
1.14.11	PS01325						
1.14.13	PS50902	PS60001					
1.14.16	PS00367						
1.14.17	PS00084						
1.14.17	PS00084	PS00085					

1.14.17	PS00084	PS00085	PS50320				
1.14.19	PS00191	PS00476	PS50255				
1.14.19	PS00476						
1.14.19	PS00574						
1.14.99	PS00593						
1.15.1	PS00087	PS00332					
1.15.1	PS00088						
1.17.4	PS00089	PS00185					
1.17.4	PS00089	PS00583					
1.17.4	PS00368						
1.17.4	PS00368	PS50817	PS50818	PS50819			
1.18.6	PS00065	PS00692	PS00746				
1.2.1	PS00071	PS00422					
1.2.1	PS00071	PS00584					
1.2.1	PS01223						
1.3.1	PS01017	PS01018	PS50319				
1.3.1	PS01298						
1.3.3	PS00911						
1.3.3	PS00911	PS00912					
1.3.3	PS01021						
1.3.99	PS00044	PS00073					
1.3.99	PS00072	PS00073					
1.4.1	PS00074						
1.4.3	PS00191	PS01164					
1.4.3	PS00445	PS00677					
1.4.3	PS00579	PS01064					
1.4.3	PS00677						
1.4.3	PS00926						
1.4.3	PS00926	PS50328					
1.4.3	PS01064						
1.4.3	PS01164						
1.4.3	PS01164	PS01165					
1.5.1	PS00075						
1.5.1	PS00075	PS00152					
1.5.1	PS00443	PS00521					
1.6.5	PS00284	PS50314					
1.6.5	PS00443	PS00583					
1.6.5	PS00667	PS00668	PS50314				
1.6.5	PS00667	PS00668	PS50320				
1.6.5	PS00668	PS50314					
1.6.5	PS50314	PS50320					
1.6.5	PS50319	PS50320					
1.6.99	PS00198	PS00551	PS00642	PS00643			
1.6.99	PS00503	PS00535					
1.6.99	PS00535	PS00542					
1.6.99	PS00644	PS00645	PS01039				
1.7.3	PS00366						
1.9.3	PS00077	PS00078					
1.9.3	PS00077	PS00267					
1.9.3	PS00077	PS00659					
1.9.3	PS00077	PS50253					
1.9.3	PS00078	PS00527					

1.9.3	PS00078	PS50320					
1.9.3	PS00848						
1.9.3	PS01329						
1.97.1	PS01087						
2.1.1	PS00014	PS01279					
2.1.1	PS00041	PS00374	PS01124				
2.1.1	PS00050	PS00094					
2.1.1	PS00094	PS00095					
2.1.1	PS00200	PS50280	PS50867	PS50868			
2.1.1	PS00354	PS01359	PS50016	PS50089	PS50216	PS50280	PS50868
2.1.1	PS00445	PS01279					
2.1.1	PS00598	PS50013	PS50280	PS50867	PS50868		
2.1.1	PS00732	PS00839	PS00840				
2.1.1	PS00839						
2.1.1	PS00840						
2.1.1	PS01100						
2.1.1	PS01131						
2.1.1	PS01230						
2.1.1	PS01230	PS01231					
2.1.1	PS01279						
2.1.1	PS50123						
2.1.1	PS50280	PS50867					
2.1.1	PS50280	PS50867	PS50868				
2.1.2	PS00096						
2.2.1	PS00044	PS00187					
2.2.1	PS00187	PS00659					
2.2.1	PS00187	PS00801					
2.2.1	PS00187	PS00801	PS00802				
2.2.1	PS00226	PS00802					
2.2.1	PS00801						
2.2.1	PS00801	PS00802					
2.2.1	PS00802						
2.3.1	PS00098	PS00099	PS00737				
2.3.1	PS00098	PS00606					
2.3.1	PS00100						
2.3.1	PS00439	PS00440					
2.3.1	PS00440						
2.3.1	PS00441						
2.3.1	PS00591	PS00975	PS00976				
2.3.1	PS00633	PS01357	PS50014	PS50134	PS50135		
2.3.1	PS00975	PS00976					
2.3.2	PS00462						
2.3.3	PS00399	PS01216	PS01217				
2.3.3	PS00480						
2.3.3	PS00510						
2.3.3	PS00815						
2.3.3	PS00815	PS00816					
2.3.3	PS00816						
2.3.3	PS01226						
2.4.1	PS00011	PS00375					
2.4.1	PS00102						
2.4.1	PS00335						

2.4.1	PS00375						
2.4.2	PS00103	PS00443					
2.4.2	PS00103	PS50326					
2.4.2	PS00647						
2.4.2	PS01232						
2.4.2	PS01240						
2.4.2	PS01291						
2.4.2	PS01316						
2.5.1	PS00104	PS00885	PS01118				
2.5.1	PS00165	PS00901					
2.5.1	PS00217	PS00901					
2.5.1	PS00228	PS01330					
2.5.1	PS00376						
2.5.1	PS00376	PS00377					
2.5.1	PS00377						
2.5.1	PS00444	PS00723					
2.5.1	PS00792						
2.5.1	PS00792	PS00793					
2.5.1	PS00793						
2.5.1	PS00885						
2.5.1	PS00962	PS01066					
2.5.1	PS01044	PS01045					
2.5.1	PS01066						
2.5.1	PS50844						
2.6.1	PS00105	PS00217					
2.6.1	PS00105	PS01319					
2.6.1	PS00196	PS00600					
2.6.1	PS00443	PS01039					
2.6.1	PS00443	PS50817	PS50818	PS50819			
2.6.1	PS00600	PS01067					
2.7.1	PS00014	PS00433					
2.7.1	PS00021	PS00109	PS00239	PS50011	PS50038	PS50070	
2.7.1	PS00021	PS00109	PS50011	PS50038	PS50070		
2.7.1	PS00041	PS00915	PS00916	PS50290			
2.7.1	PS00044	PS00627					
2.7.1	PS00044	PS01035					
2.7.1	PS00059	PS00106	PS00627				
2.7.1	PS00092	PS00108	PS50011				
2.7.1	PS00106	PS00627					
2.7.1	PS00108	PS00152	PS01351	PS50011			
2.7.1	PS00108	PS00191	PS50011				
2.7.1	PS00108	PS00284	PS50011				
2.7.1	PS00108	PS00381	PS50011	PS50125			
2.7.1	PS00108	PS00479	PS50011	PS50081			
2.7.1	PS00108	PS00479	PS50011	PS50081	PS50898		
2.7.1	PS00108	PS00501	PS50011				
2.7.1	PS00108	PS01351	PS50011				
2.7.1	PS00108	PS50003	PS50011	PS50132			
2.7.1	PS00108	PS50006	PS50011				
2.7.1	PS00108	PS50011					
2.7.1	PS00108	PS50011	PS50012				
2.7.1	PS00108	PS50011	PS50017				

2.7.1	PS00108	PS50011	PS50078				
2.7.1	PS00108	PS50011	PS50105				
2.7.1	PS00108	PS50011	PS50108				
2.7.1	PS00108	PS50011	PS50132				
2.7.1	PS00108	PS50011	PS50195				
2.7.1	PS00108	PS50011	PS50209				
2.7.1	PS00109	PS00214	PS00239	PS50011			
2.7.1	PS00109	PS00239	PS00317	PS50011			
2.7.1	PS00109	PS00239	PS00453	PS50011			
2.7.1	PS00109	PS00239	PS01118	PS50011			
2.7.1	PS00109	PS00239	PS50011				
2.7.1	PS00109	PS00240	PS50011				
2.7.1	PS00109	PS00406	PS01132	PS50001	PS50011		
2.7.1	PS00109	PS00501	PS50011	PS50108			
2.7.1	PS00109	PS00790	PS00791	PS50011	PS50105		
2.7.1	PS00109	PS50001	PS50011				
2.7.1	PS00109	PS50001	PS50011	PS50057			
2.7.1	PS00109	PS50001	PS50011	PS50133			
2.7.1	PS00109	PS50011	PS50057				
2.7.1	PS00109	PS50011	PS50105				
2.7.1	PS00109	PS50011	PS50268				
2.7.1	PS00193	PS50011					
2.7.1	PS00287	PS01035					
2.7.1	PS00369	PS00372					
2.7.1	PS00371	PS01035					
2.7.1	PS00372	PS00387					
2.7.1	PS00378						
2.7.1	PS00433						
2.7.1	PS00445	PS00761	PS00933				
2.7.1	PS00445	PS00933					
2.7.1	PS00445	PS00933	PS00962				
2.7.1	PS00464	PS00583	PS00584				
2.7.1	PS00479	PS50081	PS50200				
2.7.1	PS00567						
2.7.1	PS00583	PS00584					
2.7.1	PS00603						
2.7.1	PS00915	PS00916	PS50195	PS50290			
2.7.1	PS00915	PS00916	PS50290				
2.7.1	PS00915	PS50077	PS50290				
2.7.1	PS00915	PS50290					
2.7.1	PS01035						
2.7.1	PS01069						
2.7.1	PS01351	PS50011					
2.7.1	PS50011	PS50304					
2.7.2	PS00104	PS01075	PS01076				
2.7.2	PS00111						
2.7.2	PS00111	PS00453					
2.7.2	PS00153	PS00902					
2.7.2	PS00324						
2.7.2	PS00327	PS00902					
2.7.2	PS00445	PS01075	PS01076				
2.7.2	PS00659	PS00902					



2.7.2	PS00758	PS01075	PS01076				
2.7.2	PS00902						
2.7.2	PS00902	PS50890					
2.7.2	PS01075						
2.7.2	PS01075	PS01076					
2.7.2	PS01076						
2.7.3	PS00112						
2.7.3	PS00369	PS00370	PS00742				
2.7.4	PS00113						
2.7.4	PS00113	PS00202					
2.7.4	PS00113	PS50052					
2.7.4	PS01331						
2.7.6	PS00103	PS00114					
2.7.6	PS00103	PS00114	PS00144				
2.7.6	PS00114						
2.7.7	PS00011	PS00466					
2.7.7	PS00044	PS00116					
2.7.7	PS00115						
2.7.7	PS00116	PS00119					
2.7.7	PS00116	PS00214					
2.7.7	PS00116	PS00214	PS50817	PS50818	PS50819		
2.7.7	PS00116	PS50077	PS50817	PS50818	PS50819		
2.7.7	PS00116	PS50817	PS50818	PS50819			
2.7.7	PS00117						
2.7.7	PS00120	PS01166					
2.7.7	PS00152	PS00228					
2.7.7	PS00163	PS00466	PS01030				
2.7.7	PS00192	PS01166					
2.7.7	PS00283	PS01166					
2.7.7	PS00307	PS00447					
2.7.7	PS00307	PS00447	PS00449				
2.7.7	PS00327	PS01166					
2.7.7	PS00446						
2.7.7	PS00447	PS00659					
2.7.7	PS00466	PS01030					
2.7.7	PS00485	PS01295					
2.7.7	PS00489	PS00900					
2.7.7	PS00522						
2.7.7	PS00808						
2.7.7	PS00808	PS00809					
2.7.7	PS00808	PS00809	PS00810				
2.7.7	PS00808	PS00810					
2.7.7	PS00809						
2.7.7	PS00809	PS00810					
2.7.7	PS01030						
2.7.7	PS01110						
2.7.7	PS01111						
2.7.7	PS01112						
2.7.7	PS01154						
2.7.7	PS01163						
2.7.7	PS01166						
2.7.7	PS01190						

2.7.7	PS01277						
2.7.7	PS01315						
2.7.8	PS00287	PS01347	PS01348				
2.7.8	PS00379						
2.7.8	PS01347	PS01348					
2.7.8	PS01348						
2.8.1	PS00380	PS00683	PS50206				
2.8.1	PS00683	PS50206					
2.8.3	PS01273						
2.8.3	PS01273	PS01274					
2.8.3	PS01274						
3.1.1	PS00014	PS00122	PS00941				
3.1.1	PS00120	PS00122	PS00941				
3.1.1	PS00120	PS00155					
3.1.1	PS00120	PS00155	PS00931				
3.1.1	PS00120	PS50095					
3.1.1	PS00155						
3.1.1	PS00155	PS00931					
3.1.1	PS00217	PS01195	PS01196				
3.1.1	PS00217	PS01196					
3.1.1	PS00503	PS00800					
3.1.1	PS01173	PS01174					
3.1.1	PS01195						
3.1.1	PS01195	PS01196					
3.1.1	PS01196						
3.1.1	PS50110	PS50122					
3.1.1	PS50122						
3.1.2	PS00152	PS00972	PS00973	PS50235			
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