

Supplementary Materials

Table 1

The congener profiles of 2,3,7,8-substituted PCDD/Fs (pg/g).

	A(1)	A(2)	A(3)	A(4)	A(5)	B-1(1)	B-1(2)
2,3,7,8-TCDD	312	237	110	230	226	1	120
1,2,3,7,8-PeCDD	1788	1385	1160	2496	1916	1	536
1,2,3,4,7,8-HxCDD	5707	3963	5448	8248	6242	4	942
1,2,3,6,7,8-HxCDD	4971	2899	6265	8126	5868	9	920
1,2,3,7,8,9-HxCDD	4218	2698	4257	6864	4785	5	650
1,2,3,4,6,7,8-HpCDD	91752	53135	110499	137060	103110	70	7089
OCDD	665628	535409	645831	661686	638900	709	31882
2,3,7,8-TCDF	26570	17839	16076	32078	24936	63	2950
1,2,3,7,8-PeCDF	8275	5441	5434	10827	7792	23	955
2,3,4,7,8-PeCDF	192268	120199	26516	50532	82985	66	1995
1,2,3,4,7,8-HxCDF	40743	27398	33700	40259	36394	46	4809
1,2,3,6,7,8-HxCDF	45929	33326	46751	53453	47703	0	4256
1,2,3,7,8,9-HxCDF	51451	31097	65666	64508	55441	93	1544
2,3,4,6,7,8-HxCDF	93851	60751	113601	122629	101133	121	6966
1,2,3,4,6,7,8-HpCDF	271694	293599	347842	279440	294961	467	86989
1,2,3,4,7,8,9-HpCDF	73721	44416	80065	83649	73359	51	2284
OCDF	1218499	1044571	837872	985741	1047962	1344	49134
Σ PCDDs	774275	599726	773570	842709	832860	799	42139
Σ PCDFs	2023001	1678637	1573524	1723116	1865040	2272	161881
Σ PCDD/Fs	2797376	2278362	2347095	2547826	2533712	3071	204021

	B-2(1)	B-2(2)	B-3(1)	B-3(2)	B-4(1)	B-4(2)	C-1(1)
2,3,7,8-TCDD	0	0	14	38	0	7	630
1,2,3,7,8-PeCDD	3	4	68	68	3	2	674
1,2,3,4,7,8-HxCDD	3	3	53	54	6	4	1006
1,2,3,6,7,8-HxCDD	2	5	73	49	10	6	980
1,2,3,7,8,9-HxCDD	5	4	51	41	11	8	693
1,2,3,4,6,7,8-HpCDD	30	47	431	212	101	0	7070
OCDD	358	540	3271	1018	707	445	55359
2,3,7,8-TCDF	19	12	158	252	39	32	4348
1,2,3,7,8-PeCDF	8	7	207	291	21	16	1002
2,3,4,7,8-PeCDF	15	16	729	753	46	31	2480
1,2,3,4,7,8-HxCDF	12	14	920	776	64	29	4069
1,2,3,6,7,8-HxCDF	0	0	832	608	77	34	3608
1,2,3,7,8,9-HxCDF	17	25	423	215	57	25	1291
2,3,4,6,7,8-HxCDF	34	52	1512	880	121	64	6211
1,2,3,4,6,7,8-HpCDF	238	295	14293	6249	653	341	75768
1,2,3,4,7,8,9-HpCDF	22	31	432	196	81	30	1535
OCDF	619	837	9483	2380	1156	670	653484
Σ PCDDs	401	602	3962	1482	838	473	66412
Σ PCDFs	985	1289	28990	12599	2315	1273	165697
Σ PCDD/Fs	1386	1891	32952	14079	3153	1746	232109

	C-1(2)	C-2(1)	C-2(2)	C-3(1)	C-3(2)	C-4(1)	C-4(2)
2,3,7,8-TCDD	442	534	602	491	241	429	203
1,2,3,7,8-PeCDD	406	558	700	2075	908	1934	1418
1,2,3,4,7,8-HxCDD	563	707	998	1718	810	2633	1942
1,2,3,6,7,8-HxCDD	514	666	963	1740	808	2614	2030
1,2,3,7,8,9-HxCDD	482	438	816	1488	562	1876	1419
1,2,3,4,6,7,8-HpCDD	6716	6231	12180	12133	3984	29490	30770
OCDD	79419	68264	109640	80981	18837	262493	261875
2,3,7,8-TCDF	4967	5107	7840	2409	615	2560	3031
1,2,3,7,8-PeCDF	1211	1065	2082	3148	1071	3493	3157
2,3,4,7,8-PeCDF	3628	2790	3504	7560	1809	10896	9315
1,2,3,4,7,8-HxCDF	7423	4992	10270	12832	3208	19969	19664
1,2,3,6,7,8-HxCDF	7569	4340	11099	12654	3330	22665	21820
1,2,3,7,8,9-HxCDF	3134	1277	6026	6795	808	14729	16768
2,3,4,6,7,8-HxCDF	11654	6381	22089	23610	3711	43991	49446
1,2,3,4,6,7,8-HpCDF	138508	87083	159798	138706	46713	225008	219448
1,2,3,4,7,8,9-HpCDF	5199	1738	8873	7999	1010	20731	23827
OCDF	206674	73763	254086	169938	22599	522095	540120
Σ PCDDs	88541	77398	125899	100626	26149	301469	299657
Σ PCDFs	389967	188535	485667	385653	84874	886138	906595
Σ PCDD/Fs	478508	265933	611566	486279	111023	1187607	1206253

	D-1(1)	D-1(2)	D-2(1)	D-2(2)	D-3(1)	D-3(2)
2,3,7,8-TCDD	0	0	10	0	14	59
1,2,3,7,8-PeCDD	156	115	140	95	634	651
1,2,3,4,7,8-HxCDD	297	207	226	287	921	1628
1,2,3,6,7,8-HxCDD	286	189	202	270	827	1405
1,2,3,7,8,9-HxCDD	215	145	147	187	539	1248
1,2,3,4,6,7,8-HpCDD	12353	8476	9261	5557	30628	47153
OCDD	357428	305942	206099	295433	592670	679724
2,3,7,8-TCDF	3571	3078	1458	1877	6313	9582
1,2,3,7,8-PeCDF	593	372	393	410	1280	1945
2,3,4,7,8-PeCDF	2751	2331	1019	1346	4864	7606
1,2,3,4,7,8-HxCDF	7357	5968	3480	3903	16409	19596
1,2,3,6,7,8-HxCDF	8086	5731	2700	0	17134	21194
1,2,3,7,8,9-HxCDF	6382	4845	689	873	14794	17864
2,3,4,6,7,8-HxCDF	19884	16017	3156	4086	31452	45513
1,2,3,4,6,7,8-HpCDF	230238	222983	116122	140414	251004	216098
1,2,3,4,7,8,9-HpCDF	10372	7917	2333	2683	22904	32756
OCDF	1007930	857771	491393	632742	1591585	1365032
Σ PCDDs	370736	315074	216085	301828	626262	734867
Σ PCDFs	1297165	1127013	622743	788334	1957738	1737186
Σ PCDD/Fs	1667900	1442087	838829	1090162	2583970	2469052