

Table S1. Chemical information and QA/QC metrics of chemicals procured from the USEPA

casrn_id	chemicalname	vendor	vendor_part_number	lot number	bottle_id	lotmatch_id	co_id	co_bottle_id	co_purity_percentage	co_methods	t_tox21_id	t_grade_id*	concentration_mm
57-63-6	17alpha-Ethinylestradiol	Sigma Chemical Company	2463	1098463	TX005798	4809	4792	TX005799	99	HPLC	Tox21_300413	A	20
58-18-4	17-Methyltestosterone	LightBiologicals	MOP-20339	L8090501MOP20339	TX009791	5668	6598	TX009792	98	HPLC; IR/NMR	Tox21_400058	A	18
6893-02-03	3,5,3'-Triiodothyronine	LightBiologicals	MOP-10623	L8081001MOP10623	TX006666	4260	5167	TX006667	98	HPLC; IR/NMR	Tox21_301943	A	16
521-18-6	5alpha-Dihydrotestosterone	Toronto Research Chemicals, Inc.	A637540		TX012211	6354	737	BFO0022451	98	TLC; NMR	Tox21_303655	1 ND	20
1478-61-1	Bisphenol AF	LightBiologicals	MOP-10116	L8080901MOP10116	TX004108	3054	4041	TX004109	99.1	GC	Tox21_303641	A	20
94-26-8	Butylparaben	Enamine	EN300-21566	60174-2	TX001640	2356	3017	TX001640	99	NMR;HPLC	Tox21_300332	A	20
290352-28-2	CP-634384	EPA	Pharma1_CP-634384		TX006195	5769	5015	TX006195			Tox21_300466	A	20
55290-64-7	Dimethipin	LightBiologicals	MOP-10551	L8090401MOP10551	TX006122	4113	4953	TX006123	99.5	HPLC; IR/NMR	Tox21_300423	A	20
446-72-0	Gestinene	LightBiologicals	MOP-20333	L8081001MOP20333	TX009779	5516	6592	TX009780	98	HPLC; IR/NMR	Tox21_300585	A	20
52-86-8	Haloperidol	LightBiologicals	MOP-10612	L8081201MOP10612	TX006644	4249	5156	TX006645	99.4	HPLC; IR/NMR	Tox21_300475	A	20
143-50-0	Kepone	Sigma Chemical Company	45379	SEZEP126X	TX002769	3655	3482	TX002770	99.9	HPLC; NMR	Tox21_300098	ND	20
87-86-5	Pentachlorophenol	Enamine	EN300-18735	R474897	TX001735	2419	3061	TX001735		NMR;HPLC	Tox21_300023	A	10
1763-23-1	Perfluorooctane sulfonic acid	LightBiologicals	MOP-20460	L8080501MOP20460	TX011591	5690	6959	TX010870	100	Titration (neutralization); IR/NMR	Tox21_400083	ND	20
82640-04-8	Raloxifene hydrochloride	LightBiologicals	MOP-20341	L8080601MOP20341	TX009795	5524	6600	TX009796	98	HPLC; IR/NMR	Tox21_302369	ND	20
137-30-4	Ziram	LightBiologicals	MOP-20088	L8080101MOP20088	TX007272	4322	5453	TX007273	99.2	CHELOMETRIC TITRATION;IR;NMR	Tox21_300503	A	20

* t_grade_id of A represents ≥ 90% purity

* t_qgrade_id of A represents $\geq 90\%$ purity