Electronic Supplementary Material (ESI) for Green Chemistry.
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Table AI –
The change in mass of inhibitors with pervaporation detoxification or control treatment. The inhibitors' concentration before and after pervaporation and their concentration in the permeate is also given.

		Pervaporation retentate mass% of initial	Mass% of initial in control	Starting Concentration (µg/mL)	End retentate Concentration (µg/mL)	Mean Permeate Concentration
Measured By HPLC	Glucose	100	100	19100	28200	-
	Xylose	98	97	45300	65200	-
	Arabinose	92	96	5140	7050	-
	HMF	90	93	288	390	-
	Furfural	0	88	802	-	700
	Glycerol			0	230	-
	Formic	46	47	2470	1740	328
	Acetic	73	106	8650	10150	7787
Measured by LCMS	Oxalic Acid	99	133	92	136	-
	cis-Aconitic Acid	128	192	9	20	-
	Maleic Acid	236	575	5	19	0.71
	Glucuronic Acid	65	65	236	227	-
	Citric Acid	72	78	103	107	-
	Galacturonic Acid	86	87	568	628	<
	Gluconic Acid	215	216	154	447	<
	Pyruvic Acid	122	140	104	190	-
	Tricarballylic Acid	0	20	33	-	-
	Glyoxylic Acid			298	>	-
	Malic Acid	150	158	311	541	1.5
	Malonic Acid	24	41	18	6	-
	trans-Aconitic Acid	347	128	3	13	-
	Methylmalonic Acid	84	247	4	5	2.0
	Succinic Acid	257	235	15	50	0.4
	Glycolic Acid	397	368	43	239	<
	Lactic Acid	105	106	31	53	<
	Itaconic Acid	81	104	5	7	1.7
	Glutaric Acid			-	-	-
	Fumaric Acid	81	101	4	4	-
	2-Hydroxy-2-methylbutyric Acid			-	-	-
	Adipic Acid			-	-	-
	Levulinic Acid	114	105	996	1557	<
	2-Furoic Acid	92	130	11	15	<
Measured by GCMS	2,3-Dihydroxybenzoic Acid			1	1	-
	2,5-Dihydroxybenzoic Acid			2	3	+
	2,6-Dimethoxyphenol			1	+	+
	2-hydroxybenzoic acid			+	+	-
	2-Hydroxybenzyl Alcohol			+	+	+
	3,4-Dihydroxybenzaldehyde	255	243	2	6	+
	3,4-Dihydroxybenzoic Acid	170	143	4	9	+
	3-Hydroxybenzoic Acid			+	+	-
	3-Methylcatechol			+	+	-
	4-Hydroxybenzaldehyde	133	128	21	42	-
	4-Hydroxybenzoic Acid	118	109	7	12	+
	4-Hydroxycoumarin	60	94	2	2	-
	4-Hydroxymandelic Acid	80	82	4	6	+
	4-Methylcatechol			+	+	-
	4-OH-3-OCH3-Mandelic Acid	126	108	2	4	-
	Acetosyringone	103	101	1	2	-
	Acetovanillone	107	121	3	5	+
	Benzoic Acid			+	+	+
	Benzyl Alcohol			+	+	-
	Caffeic Acid	166	152	4	9	-
	Catechol			+	+	-

Measured by GCMS						
	Coniferyl Alcohol	48	4	10	7	-
	Eugenol			+	+	+
	Ferulic Acid	100	67	94	140	2.0
	Gallic Acid			+	+	-
	Guaiacol			2	+	+
	Homovanillic	155	133	3	7	-
	Homovanillyl Alcohol			+	+	-
	Hydroquinone	99	67	9	13	-
	iso-Eugenol			+	+	-
	iso-Ferulic Acid			+	+	-
	p-Coumaric	108	77	61	143	1.3
	Resorcinol			-	-	-
	Salicylaldehyde			+	+	+
	Sinapaldehyde	60	54	5	4	-
	Sinapic Acid			1	1	-
	Syringaldehyde	126	131	22	41	+
	Syringic Acid	125	117	14	25	-
	Vanillic Acid	130	123	25	47	+
	Vanillin	144	164	33	70	7.0
	Vanillyl Alcohol			+	3	-
	Cis p-Coumaric	89	84	3	4	-
	Cis Ferulic Acid	74	76	3	4	-
	1-Guaiacylethanol			+	4	2.8
	2-Guaiacylacetaldehyde	16	18	22	5	-
	2-OH-1-Guaiacylpropanone	90	96	11	14	-
	2-Syringylacetaldehyde	20	14	8	2	-
	3-Guaiacylacetol	46	35	151	108	-
	3-Guaiacylpropanol	100	98	9	13	-
	3-Syringylacetol	31	19	121	53	-
	4-(2-OH-Ethyl)phenol			+	4	+
	Guaiacylacetone	67	72	10	10	+
	1-(4-OH-Phenyl)-acetol	91	86	8	11	-
	1- Syringylacetol	99	88	23	33	4.0
	1-Guaiacylacetol	97	86	69	96	2.3
	1-Guaiacylpropan-1,2-dione	77	100	26	29	2.0
	1-Syringylpropan-1,2-dione	96	101	12	16	-
	2-OH-1-(4-OH-Phenyl)-propan-1-one	89	90	3	4	2.0
	2-OH-1-Guaiacylethanone	99	93	32	45	-
	2-OH-1-Syringylethanone	86	82	16	20	-
	2-OH-1-Syringylpropanone	94	91	4	5	-
	3-(4-OH-Phenyl)-acetol	63	52	3	15	-
	3-Guaiacylpropanoic Acid	87	91	3	4	-
	3-OH-1-Guaiacylpropanone	83	93	2	3	-
	3-OH-1-Syringylpropanone	86	89	3	3	-

- not detected
+ present but concentration < 1 µg/mL
> present but concentration >500 µg/mL
< present but concentration < .1 µg/mL