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Electronic supplementary material

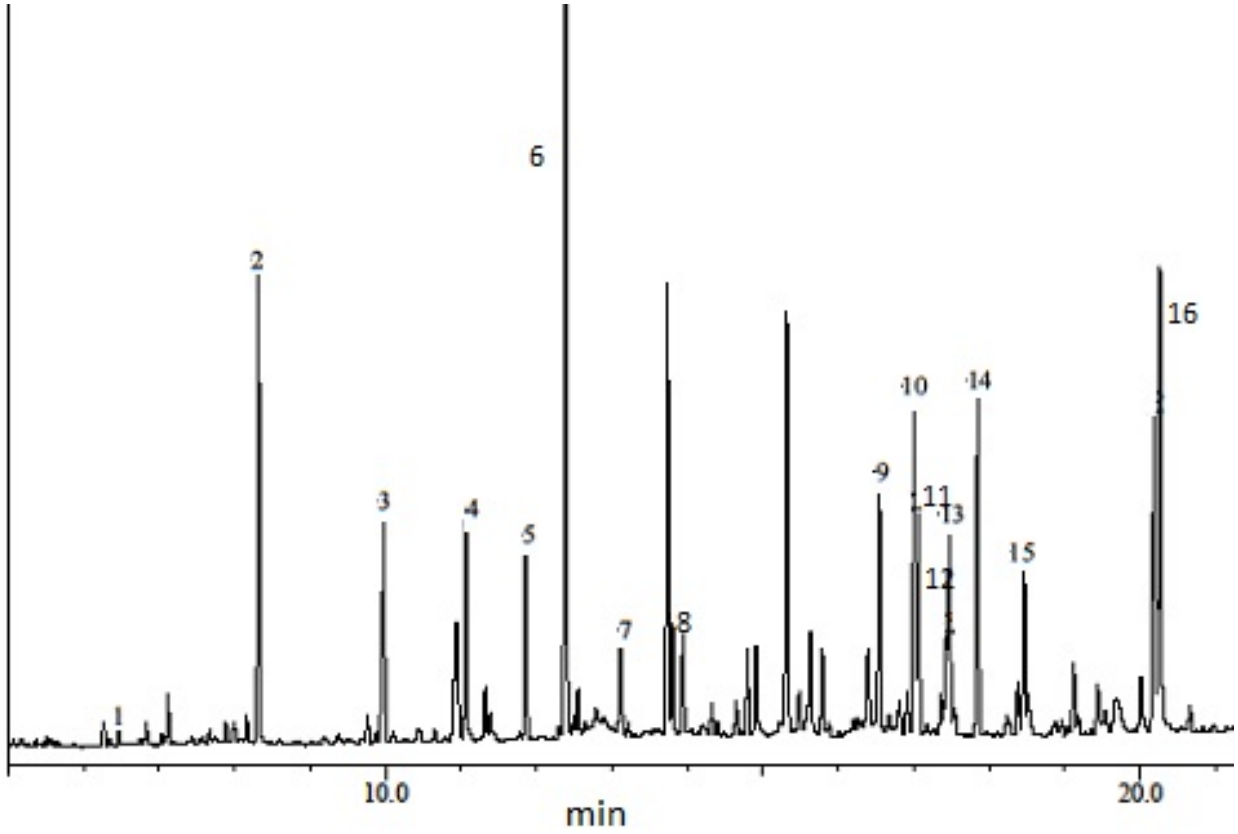
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BIRCH LIGNINS: CHEMICAL DIVERSITY AND THORIUM-232 SORPTION PROPERTIES*

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Pyrolysis gas chromatography/mass spectrometry (Py-GC/MS) chromatograms of the sample LB-1

Identities of the low molecular weight phenolic compounds released after Py-GC/MS of the sample LB-1

Peak №	Phenolic compounds	Retention time, min	Empirical formula	Oigin[a]
1	Phenol	6.471	C_6H_5OH	H
2	Phenol, 2-methoxy	8.321	$C_7H_8O_2$	G
3	2-Methoxy-4-methylphenol	9.98	$C_8H_{10}O_2$.	G
4	1,2-Benzenediol, 3-methoxy	11.065	$C_7H_8O_3$	G
5	2-Methoxy-4-vinylphenol	11.859	$C_9H_{10}O_2$	G
6	Phenol, 2,6-dimethoxy-	12.393	$C_8H_{10}O_3$	S
7	Benzaldehyde, 4-hydroxy-3-methoxy-	13.12	$C_8H_8O_3$	G
8	Phenol, 2-methoxy-4-(1-propenyl)-	13.804	$C_{10}H_{12}O_2$	G
9	Benzaldehyde, 4-hydroxy-3,5-dimethoxy-	16.541	$C_9H_{10}O_4$	S
10	Phenol, 2,6-dimethoxy-4-(2-propenyl)	17.004	$C_{11}H_{14}O_3$	S
11	Homo-syringaldehyde	17.062	$C_{10}H_{12}O_4$	S
12	Ethanone, 1-(4-hydroxy-3,5-dimethoxyphenyl)-	17.424	$C_{10}H_{12}O_4$	S
13	4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol	17.471	$C_{10}H_{12}O_3$	G
14	(4-hydroxy-3,5-dimethoxy-phenyl)-acetone	17.846	$C_{11}H_{14}O_4$	S
15	Propio-syringone	18.46	$C_{11}H_{14}O_4$	S
16	3,5-Dimethoxy-4-hydroxycinnamaldehyde	20.182	$C_{11}H_{12}O_4$	S

[a] H: lignin *p*-hydroxyphenyl-type. G: lignin guaiacyl-type. S: lignin syringyl-type.