

**Supplementary Material**

**Tab. S1** - Fraction A (Area %) of extracts and other compounds assessed by GC-MS analysis of samples of untreated (C) and thermo-treated (TH) alder.

Fraction A (Area %)										Compounds
Autoclave		Soxhlet ex.								
Water		Hexane		Dichloromethane		Methanol		Benzene/ Ethanol		
C	TH	C	TH	C	TH	C	TH	C	TH	
<b>ACID and ESTER</b>										
	11.2								33.3	<i>1,2-Benzenedicarboxylic acid</i>
				3.6	1.0					<i>Bis(2-ethylhexyl)ester- hexanedioic acid</i>
		0.9								<i>Bis(2-methylpropyl) 1,2-benzenedicarboxylate</i>
						1.0				<i>Butyl-decyl 1,2-benzenedicarboxylate</i>
						0.7				<i>Butyl-2-ethylcyclohexyl phthalate</i>
		3.3								<i>Butyl-hexyl phthalate</i>
	16.6									<i>Dibutyl phthalate</i>
										<i>Diisooctyl phthalate</i>
									4.8	<i>3,5-Dimethoxy-4-hydroxyphenylacetic acid</i>
		62.2	62.2						6.4	<i>Isobutyl-octyl phthalate</i>
								3.1		<i>Isobutyl-trans-hex-3-enyl phthalate</i>
						2.9				<i>Methyl 3,5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoate</i>
11.2										<i>Phthalic acid, isobutyl 4-octyl ester</i>
						10.2				<i>Octadecyl 3,5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoate</i>
<b>11.2</b>	<b>27.8</b>	<b>66.4</b>	<b>62.2</b>	<b>3.6</b>	<b>1.0</b>	<b>14.8</b>		<b>3.1</b>	<b>45.5</b>	<b>TOT % RELATIVE</b>
<b>ALKYL COMPOUNDS</b>										
						0.8				<i>1,2-Diethyl-cyclohexadecane</i>
						0.8				<i>(Z)-3-Hexadecene</i>
						6.0				<i>(Z)-7-Hexadecene</i>
						1.4				<i>1-Nonadecene</i>
						1.0				<i>1-Octadecene</i>
								2.6		<i>2-Methyloctacosane</i>
						2.8				<i>Cycloeoicosane</i>
								2.6		<i>Eicosane</i>
	10.3									<i>Exadecane</i>
	11.4								2.0	<i>Heptacosane</i>
									2.6	<i>Octacosane</i>
	9.3									<i>Triacotane</i>
	<b>31</b>					<b>12.8</b>		<b>9.8</b>		<b>TOT % RELATIVE</b>
<b>AROMATIC</b>										
								6.9		<i>1-Methyldodecylbenzene</i>
								0.5		<i>Phenanthrene</i>
								<b>6.9</b>		<b>TOT % RELATIVE</b>
<b>CARBONYL COMPOUNDS</b>										
12.1						8.5				<i>1-(9-anthracenyl) Ethanone</i>
									12.5	<i>(E)-15-Heptadecenal</i>
				17.8						<i>4-Hydroxy-3,5-dimethoxybenzaldehyde</i>
		0.7								<i>7,9-Di-t-butyl-1-oxaspiro[4,5]deca-6,9-diene-2,8-dione</i>
	10.1					10.0		0.8	0.7	<i>4-Hydroxy-3,5-dimethoxybenzaldehyde</i>
				16.0						<i>Benzophenone</i>
									2.8	<i>Vanillin</i>
<b>12.1</b>	<b>10.1</b>	<b>0.7</b>		<b>16.0</b>	<b>17.8</b>	<b>18.5</b>		<b>0.8</b>	<b>16</b>	<b>TOT % RELATIVE</b>
<b>FATTY ACID AND CONJUGATES</b>										
		16.1				3.0				<i>(Z)-9-Octadecenamide</i>
		0.9	0.9						1.5	<i>1-Methylethyl dodecanoate</i>
		8.1								<i>9,12-Octadecadienoic acid</i>
						2.5			1.1	<i>Glycerol 1,2-diacetate</i>
		0.9								<i>Hexadecanamide</i>
	12.7									<i>Octadecanoic acid</i>
<b>12.7</b>	<b>12.7</b>	<b>26</b>	<b>0.9</b>			<b>5.5</b>			<b>2.6</b>	<b>TOT % RELATIVE</b>

Fraction A (Area %)										Compounds
Autoclave		Soxhlet ex.								
Water		Hexane		Dichloromethane		Methanol		Benzene/ Ethanol		
C	TH	C	TH	C	TH	C	TH	C	TH	
<b>ORGANIC BUILDING BLOCKS / CARBONYL COMPOUNDS</b>										
									2.2	<i>3-Hydroxy-4-methoxybenzaldehyde</i>
11.8										<i>3,5-Dimethoxy-4-hydroxycinnamaldehyde</i>
				38.5						<i>3,5-Dimethoxy-4-hydroxycinnamaldehyde</i>
12.1										<i>2,5-di-tert-Butyl-1,4-benzoquinone</i>
				16.1						<i>3-(4-Hydroxy-3-methoxyphenyl)-2-propenal</i>
									15.6	<i>4-Hydroxy-2-methoxycinnamaldehyde</i>
							2.4			<i>Diphenyldisulfide</i>
<b>23.9</b>				<b>54.6</b>			<b>2.4</b>		<b>17.8</b>	<b>TOT % RELATIVE</b>
<b>PHENOL</b>										
						4.0				<i>2,4-Bis(1,1-dimethylethyl)phenol</i>
									1.3	<i>2,6-Dimethoxyphenol</i>
									5.9	<i>Butylated Hydroxytoluene</i>
						<b>4.0</b>			<b>7.2</b>	<b>TOT % RELATIVE</b>

**Tab. S2** - Fraction A (Area %) of extracts and other compounds assessed by GC-MS analysis of samples of untreated (C) and thermo-treated (TH) cedar.

Fraction A (Area %)										Compounds
Autoclave		Soxhlet ex.								
Water		Hexane		Dichloromethane		Methanol		Benzene/ Ethanol		
C	TH	C	TH	C	TH	C	TH	C	TH	
<b>ACID and ESTER</b>										
						3.0				Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, methyl ester
		1.1								Bis(2-ethylhexyl) phthalate
			3.8						15	Hept-4-yl-isobutyl phthalate
		2.5								Isobutyl-2-methylpent-3-yl phthalate
										Isobutyl-octyl phthalate
11.8										Phenylbenzeneacetic acid, methyl ester
	15.2									Phosphoric acid
	11.2									Phthalic acid
<b>11.8</b>	<b>26.4</b>	<b>3.6</b>	<b>3.8</b>			<b>3.0</b>			<b>15</b>	<b>TOT % RELATIVE</b>
<b>ACID/ORGANIC BUILDING BLOCKS</b>										
						2.2				Benzophenone
						<b>2.2</b>				<b>TOT % RELATIVE</b>
<b>ALKYL COMPOUNDS</b>										
						0.4				7-Hexadecene, (Z)
		0.8	2.1					2.3	1.5	<i>Cis</i> (-)-2,4a,5,6,9a-Hexahydro-3,5,5,9-tetramethyl-1 <i>H</i> -benzocycloheptene
						0.8			5.6	<i>(R)</i> -2,4a,5,6,7,8-Hexahydro-3,5,5,9-tetramethyl-1 <i>H</i> -benzocycloheptene,
		1.1	6.9	1.3	9.0			7.5		2,4a,5,6,7,8-Hexahydro-3,5,5,9-tetramethyl-, <i>(R)</i> -1 <i>H</i> -benzocycloheptene
		0.8	1.7					2.7	0.8	2,4a,5,6,7,8,9,9a-Octahydro-3,5,5-trimethyl-9-methylene- (4a <i>S-cis</i> )-1 <i>H</i> -benzocycloheptene
						1.5				Cetene
	24.7									Eicosane
	<b>24.7</b>	<b>2.7</b>	<b>10.7</b>	<b>1.3</b>	<b>9.0</b>	<b>2.7</b>		<b>12.5</b>	<b>7.9</b>	<b>TOT % RELATIVE</b>
<b>CARBONYL COMPOUNDS</b>										
	8.5									4-(methylthio)-vanillin benzaldehyde,
	10.6									2-Propenal, 3-(4-hydroxy-3-methoxyphenyl)
	10.1									4-hydroxy-3,5-dimethoxy benzaldehyde,
	<b>29.2</b>									<b>TOT % RELATIVE</b>
<b>FATTY ACID AND CONJUGATES</b>										
	11.6									<i>n</i> -Hexadecanoic acid
12.7										Octadecanoic acid
<b>12.7</b>	<b>11.6</b>									<b>TOT % RELATIVE</b>
<b>AROMATIC</b>										
			0.7							1-(1,5-Dimethylhexyl)-4-methylbenzene
					21.7					1,3-Bis(3-phenoxyphenoxy)benzene,
12.1										Acetylphenanthrene
<b>12.1</b>			<b>0.7</b>		<b>21.7</b>					<b>TOT % RELATIVE</b>
<b>TERPENE</b>										
			8.2		8.4					Artumerone
			<b>8.2</b>		<b>8.4</b>					<b>TOT % RELATIVE</b>
<b>ORGANIC BUILDING BLOCKS</b>										
			0.4							1,2,3,4-Tetrahydro-1,6-dimethylnaphthalene
11.8	11.8									3,5-Dimethoxy-4-hydroxycinnamaldehyde
					2.3					Alloaromadendrene
	13.5									Butyl citrate
					4.3					Cadina-1(10),6,8-triene
								3.2		Diphenyldisulfide
<b>11.8</b>	<b>9.7</b>				<b>6.6</b>	<b>3.2</b>				3,4,5-trimethoxyphenol, -
	<b>35</b>		<b>0.4</b>							<b>TOT % RELATIVE</b>
<b>SILAN</b>										
			3.9						0.7	1,1,2,2,3-Hexamethylindane
			<b>3.9</b>						<b>0.7</b>	<b>TOT % RELATIVE</b>