## BASE HYDROLYSIS OF TRIGLYCERIDES

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(CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub>	H-O Na <sup>†</sup> H-O Na <sup>†</sup> H-O Na <sup>†</sup>	<ol> <li>Cut as shown.</li> <li>Tape H- to the -O to make glycerol.</li> <li>Tape -O Na to C=O to make three fatty carboxylates (soap).</li> </ol>
(CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> HC-0 (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> H <sub>2</sub> C-0 (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub>	H-O⁻ Na <sup>†</sup> H-O⁻ Na <sup>†</sup> H-O⁻ Na <sup>†</sup>	
(CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> HC-0 (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> H <sub>2</sub> C-0 (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub>	H-O⁻ Na <sup>†</sup> H-O⁻ Na <sup>†</sup> H-O⁻ Na <sup>†</sup>	
(CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> HC-0 (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> H <sub>2</sub> C-0 (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub>	+ 3H <sub>2</sub> O	
(CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub>	+ 3H <sub>2</sub> O NaOH	
(CH <sub>2</sub> ) <sub>16</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>14</sub> CH <sub>3</sub> (CH <sub>2</sub> ) <sub>12</sub> CH <sub>3</sub>	+ 3H <sub>2</sub> O NaOH	