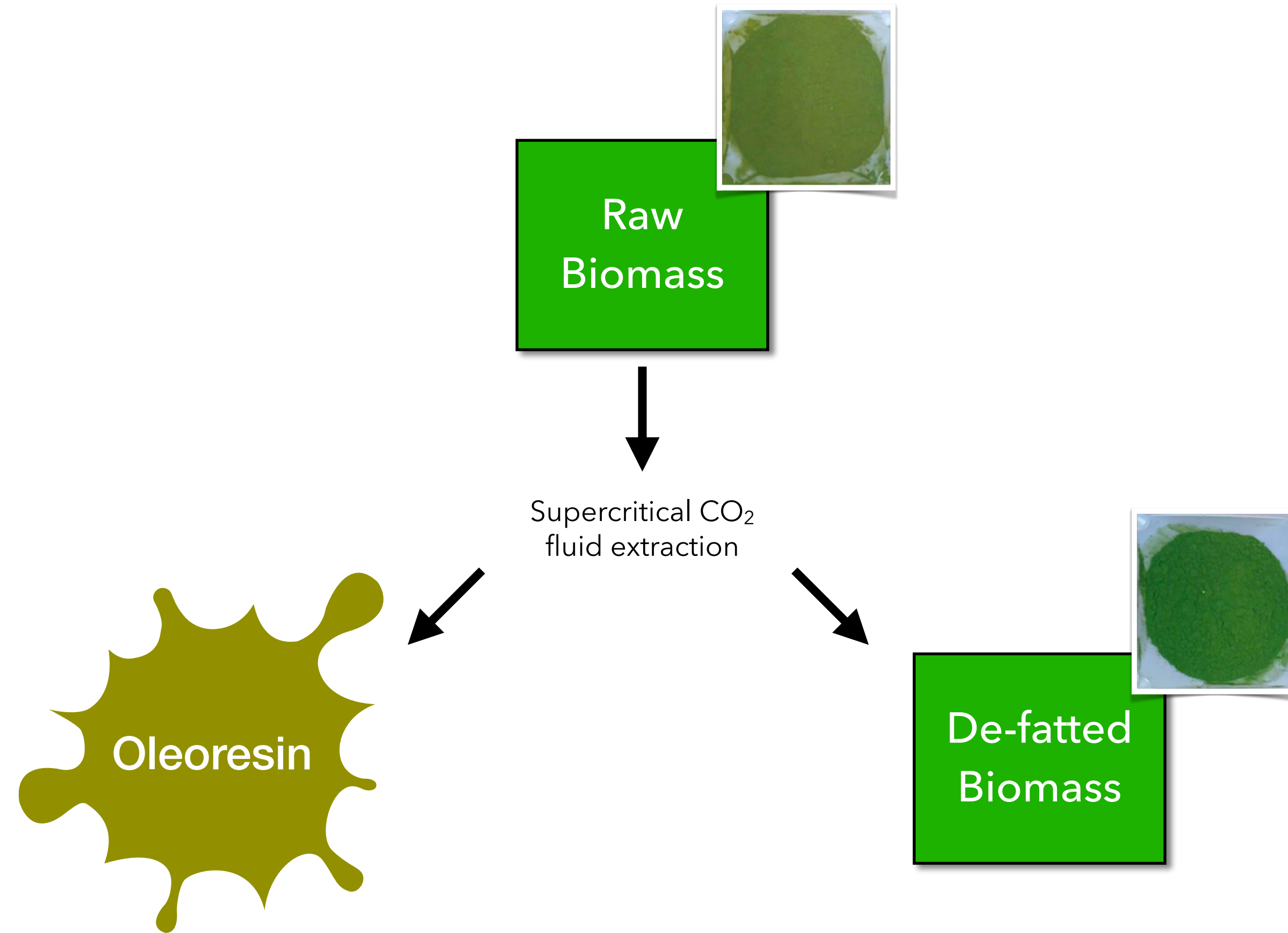




Oleoresin Detailed Specifications

Carbon Optimum green chemistry extraction process

Supercritical CO₂ extraction



Oleoresin - overall composition

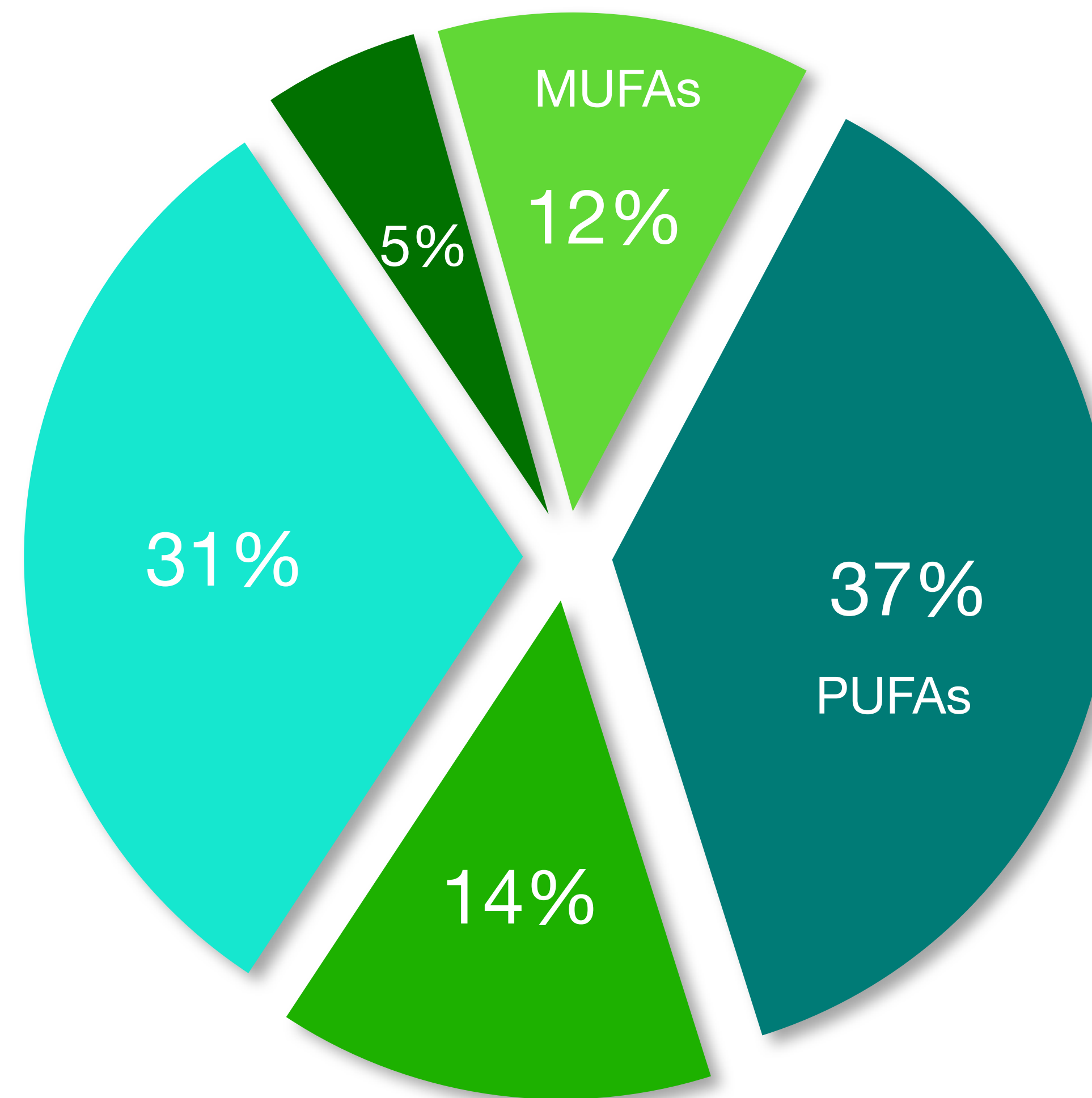
Omega-3 EPA champion

Fatty acid composition

Monounsaturated Fat (MUFAs)	12%
Polyunsaturated Fat (PUFAs)	37%
Saturated Fat	14%
Unknown Components	31%
Moisture	5%
Total Fat in Carbon Optimum Oil	63%

Omega fatty acid composition

Omega-3 Fat	31%
Omega-6 Fat	6%
Omega-7 Fat	10%
Omega-9 Fat	2%



Oleoresin - omega oils overall composition

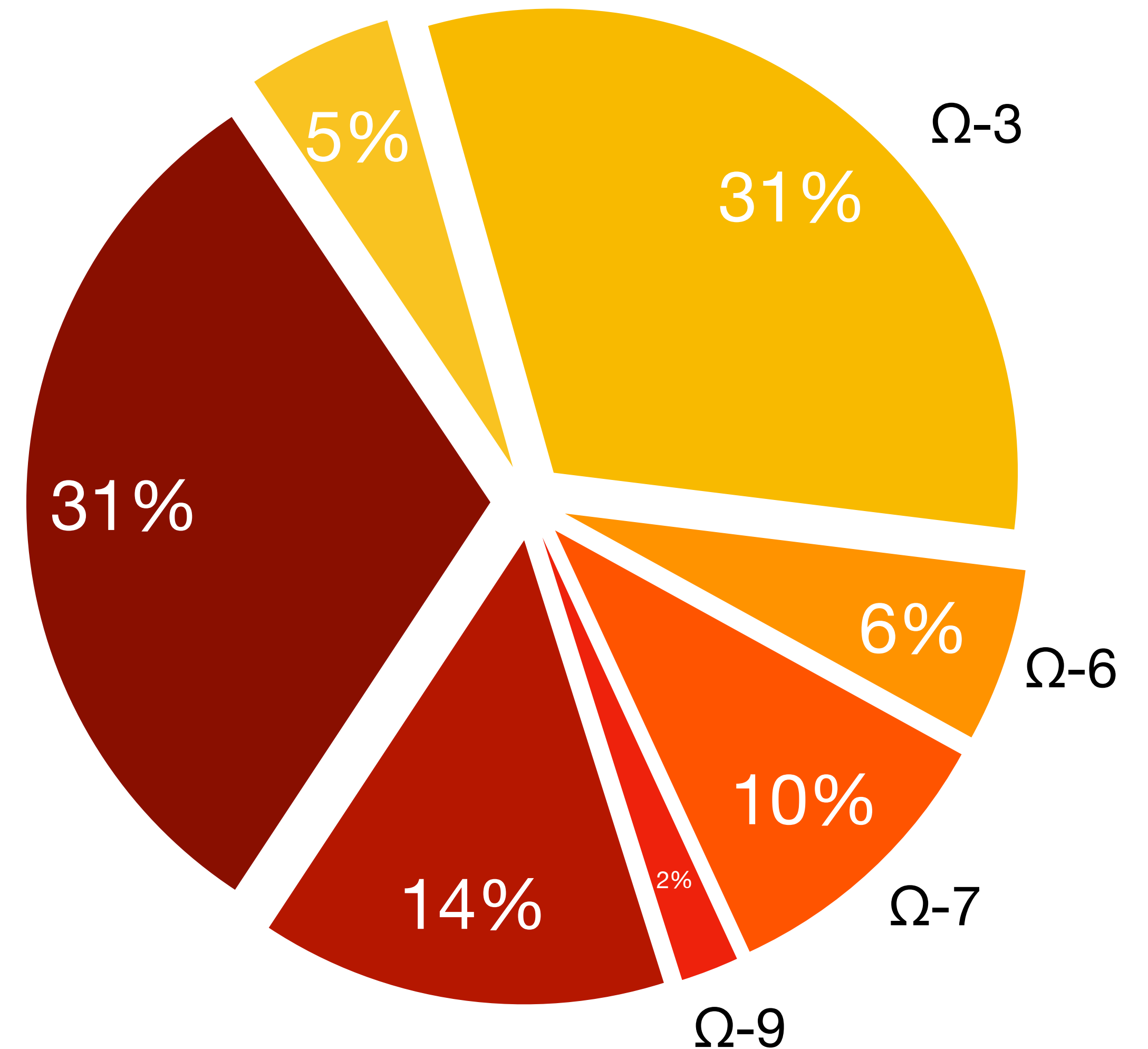
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Monounsaturated Fat (MUFAs)	12%
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Total Fat in Upwell Oil	63%

Omega fatty acid composition

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Oleoresin - most prevalent fatty acids (4%+)

Omega-3 EPA champion



C14:0 - Myristic Acid	4%
C16:0 - Palmitic Acid	6%
C16:1 (Ω -7) - Palmitoleic Acid	10%
C20:4 (Ω -6) - Arachidonic Acid	4%
C20:5 (Ω -3) - EPA	31%
Others	9%

Detailed fatty acids profile

For the aficionados...

C04:0 - Butyric Acid	<LOQ
C06:0 - Caproic Acid	<LOQ
C08:0 - Caprylic Acid	<LOQ
C10:0 - Capric Acid	<LOQ
C11:0 - Undecylic Acid	<LOQ
C12:0 - Lauric Acid	<LOQ
C14:0 - Myristic Acid	4.25%
C14:1 c-9 - Myristoleic Acid	0.07%
C15:0 - Pentadecylic Acid	0.85%
C15:1 c-10 - Pentadecenoic Acid	<LOQ
C16:0 - Palmitic Acid	6.21%
C16:1 c-9 (omega-7) - Palmitoleic Acid	10.13%
C16:2 c-9,12 (omega-4) - Hexadecadienoic Acid	<LOQ
C17:0 - Margaric Acid	1.60%
C17:1c-10 (omega-7) - Heptadecenoic Acid	0.11%
C18:0 - Stearic Acid	0.12%
C18:1 c-11 (omega-7) - Vaccenic Acid	<LOQ
C18:1 c-12 (omega-6) - Octadecenoic Acid	<LOQ
C18:1 c-9 (omega-9) - Oleic Acid	1.94%
C18:1 Trans Isomers - Elaidic Acid	<LOQ

C18:2 c-9,12 (omega-6) - Linoleic Acid	0.70%
C18:2 t-9,12 - Linoelaidic Acid	<LOQ
C18:3 c-6,9,12 (omega-6) - gamma-Linolenic Acid	<LOQ
C18:3 c-9,12,15 (omega-3) - alpha-Linolenic Acid	<LOQ
C18:4 c-6,9,12,15 (omega-3) - Stearidonic Acid	<LOQ
C20:0 - Arachidic Acid	0.15%
C20:1 c-11 (omega-9) - Gondoic Acid	<LOQ
C20:2 c-11,14 (omega-6) - Eicosadienoic Acid	<LOQ
C20:3 c-11,14,17 (omega-3) - Eicosatrienoic Acid	0.24%
C20:3 c-8,11,14 (omega-6) - DGLA	0.29%
C20:4 c-5,8,11,14 (omega-6) - Arachidonic Acid	4.34%
C20:4 c-8,11,14,17 (omega-3) - ETA	<LOQ
C20:5 c-5,8,11,14,17 (omega-3) - EPA	30.58%
C22:0 - Behenic Acid	<LOQ
C22:1 c-13 (omega-9) - Erucic Acid	<LOQ
C22:2 c-13,16 (omega-6) - Docosadienoic Acid	<LOQ
C22:5 c-7,10,13,16,19 (omega-3) - DPA	<LOQ
C22:6 c-4,7,10,13,16,19 (omega-3) - DHA	0.12%
C24:0 - Lignoceric Acid	<LOQ
C24:1 c-15 (omega-9) - Nervonic Acid	<LOQ

In bold are FAs above 4% described in details in the previous slides. Average of 3 independent CoAs (<LOQ = below detection level).



Carbon dioxide is the problem.
We are the solution.

