



Algae Biomass Exchange August 2020 – Update

The Algae Biomass Exchange is a meeting place for qualified algae/seaweed producers and potential off-takers for Omega 3 EPA/DHA - astaxanthin, cosmetics, pigments, food, beverage mixes, animal feeds, biofertilizer and bioplastics.

*Samples and tonnage of algae biomass available with Certificates of Analysis.

REQUESTS FOR BIOMASS

- Need: Algae with high starch content
- Need: *Ascophyllum nodosum*
- Need: *Asparagopsis taxiformis* and *Asparagopsis armata*
- Need: *Aphanizomenon flos-aquae*
- Need: *Arthrospira Platensis*
- Need: Astaxanthin 400-1000kg Astaxanthin Oleoresin 10% and more
- Need: Astaxanthin Oleoresin (10%)
- Need: Astaxanthin Oleoresin 5% uncracked HP biomass astaxanthin (4%)
- Need: Astaxanthin (1.5%)
- Need: *Chlamydomonas*
- Need: *Chlorella* - cracked wall cell
- Need: *Chlorella* Powder
- Need: *Chlorella* or *Spirulina* Fish Feed Grade
- Need: Compounded thermoplastic resin pellets
- Need: DHA 350mg per gram
- Need: *Dunaliella salina*
- Need: EPA 150mg per gram
- Need: *Isochrysis*
- Need: *Nannochloropsis gaditana*
- Need: Organic *Spirulina* Wet Paste 800 pounds per month
- Need: Organic *Spirulina* Dry 500 Kilos/month
- Need: *Phaeodactylum* biomass - tonnage
- Need: *Prophyridium* extract (red), *Prasinococcus capsuatus* (green).
- Need: *Prasinococcus capsuatus* (green).
- Need: Red and/or Brown Macroalgae (100-200 lbs per week)
- Need: *N.salina*, 12-15wt% slurry for research purpose (5 gallons)

Need: *Sargassum muticum*

Need: Schizochytrium heterotrophic microalgae rich in EPA or DHA

Need: Spirulina -- 800 lbs. of fresh Spirulina paste per month

Need: Spirulina Powder

Need: Uncracked paste to ship frozen by ground. Can lead to a monthly purchase.

*Looking for existing commercial algae producers currently using closed-loop PBR's for turn-key opportunity with off-take contracts.

Organism: Green algae or diatoms

GMO: Yes

Biomolecule produced by algae: CBD

Output:

Quantity: min 450mT per year DWT

Percent dry: 5% water content

Form: Powder

Need: 1,000 metric tons annually of algae high in EPA.

(without DHA and ARA).

AVAILABLE BIOMASS

Available: Organic *Aphanizomenon flos-aquae*

Available: Aquaculture feed grade *Tisochrysis lutea*, *Chaetoceros muelleri*, *Thalassiosira weissflogii* and *Tetraselmis*

Available: Astaxanthin Oleoresin 10%

Available: Astaxanthin Oleoresin 5%

Available: Astaxanthin Powder 5%

Available: Biomass-Powder from *Haematococcus pluvialis* with 5% Astaxanthin 2.000 kg available

Available: Astaxanthin Powder 5%

Available: Astaxanthin Powder 2%

Available: *Botryococcus Braunii* (type) B

Available: *Chlorella* powder & tablets - standard

Available: *Chlorella* powder & tablets - high vitamin B12

Available: *Chlorella* Powder

Available: Cold-Water-Dispersible beadlets from *Haematococcus pluvialis* with 2,5% Astaxanthin 300 kg

Available: DHA algal oil (550mg/g as FA) first quarter 2018

Available: DHA algal oil (350mg/g as FA)

Available: DHA Powder and Oil

Available: *Dunaliella Salina*

Available: Whole algae protein+EPA Omega-3 powder, EPA Omega-3 Crude Oil Extract

Available: *Nannochloropsis* - 4000 liters per month today, expanding to 150 metric tones

Available: *Haematococcus pluvialis* Oleoresin (10%) Astaxanthin

Available: *Haematococcus pluvialis* Oleoresin (5%) Astaxanthin

Available: *Haematococcus pluvialis* Oleoresin (5%) Astaxanthin - 100 kg Available

Available: *Haematococcus pluvialis* (Hp) Biomass (4%) Astaxanthin - One or more tons

Available: Haematococcus pluvialis (Hp) Biomass (4%) Astaxanthin
Available: Haematococcus pluvialis (Hp) Biomass (3%) Astaxanthin
Available: Haematococcus pluvialis (Hp) Biomass (3%) Astaxanthin - 250 kg Available
Available: Haematococcus pluvialis (Hp) Biomass (1.5% Astaxanthin)
Available: Isochrysis
Available: Nannochloropsis - 70 tons per year
(Protein content (on dry weight basis) is 45% and the lipid content 17 to 18%. EPA percentage is about 4% of the total dry weight (=35% of the fatty acids)
Available: Nannochloropsis_ sp. Powder 5 tons
Available: Nannochloropsis gaditana powder - 3,000 tons
(GMP+, ISO22000 and Kosher certified for food application)
Available: Oleoresin from Haematococcus pluvialis with 10% Astaxanthin 800 kg available
Available: Oleoresin from Haematococcus pluvialis with 5% Astaxanthin 300 kg available
Available: Phaeodactylum biomass
Available: Spirulina Powder (Certified Organic)
Available: Spirulina (fresh and frozen)
Available: Spirulina - 60 tons
Available: Spirulina - 60-65% protein - 3,000 tons per year
Available: Spirulina - 2 tons per month
Available: Spirulina Powders, compounds and foams)
Available: Algae biomass pellets - Compounded thermoplastic resin pellets (used for co-extrusion, coating
Available: 1.2 - 1.5 tons of HP biomass containing roughly 40kgs of Astaxanthin
(Material is frozen, still needs cracked and dried)
Available: Feed grade biomass has minimum Astaxanthin potency of 4.5%

For information contact: barry@nationalalgaeassociation.com