



Aegis Laboratories: 18 Industrial Market Segments (Table View)

Rank	Category	Market Segment	Product	Application	Impact
1	Hydrocarbons	Nutraceuticals	High-purity Omega-3s (EPA/DHA) & Algal Oils	Dietary supplements, softgels, functional ingredients	Replaces threatened marine sources with sustainable, vegan alternatives.
2	Hydrocarbons	Data Centers	Engineered Dielectric Fluids	Single-phase immersion cooling for AI servers and crypto mining	Drastically reduces energy consumption and water usage in data centers.
3	Hydrocarbons	Power & Electronics	Bio-Dielectric Fluids	Transformer oils, EV battery coolants, high-voltage insulation	Non-flammable, biodegradable alternative to mineral oils and PCBs.
4	Hydrocarbons	Personal Care	Bio-Active Emollients & Squalane Alternatives	Skin creams, lotions, hair care, anti-aging formulations	Delivers "clean beauty" ingredients without harvesting sharks or olives.
5	Hydrocarbons	Pharmaceuticals	Medical Grade Lipids & Excipients	Drug delivery carriers, capsule coatings, adjuvants	Ultra-pure, stable lipids for critical medical applications.
6	Hydrocarbons	Food Glazing	Edible Algae Wax	Coatings for fruit (apples, citrus), candy, and cheeses	A 100% natural, edible replacement for petroleum-based paraffin wax.
7	Hydrocarbons	Industrial Coatings	Hydrophobic Wax Emulsions	Paper cup linings, cardboard packaging, waterproofing	Enables recyclable paper packaging by replacing plastic and PFAS coatings.
8	Hydrocarbons	Textiles	Bio-Waxes & Finishing Agents	Thread lubrication, sizing, water-repellent fabric treatments	Reduces microplastic shedding and industrial chemical runoff.
9	Hydrocarbons	Lubricants	Bio-Base Oils (EALs)	Hydraulic fluids, chainsaw oils, marine lubricants	Mandatory compliance for sensitive environments (forestry/marine).
10	Hydrocarbons	Polishes & Home Care	Hard Bio-Waxes	Car wax, floor polish, furniture polish, shoe polish	Superior hardness and shine compared to synthetic alternatives.
11	Hydrocarbons	Rubber & Tires	Processing Oils & Anti-Ozonants	Softeners for tire manufacturing, rubber extrusion aids	Improves tire sustainability profile and rolling resistance.
12	Hydrocarbons	Adhesives	Bio-Tackifiers	Hot-melt adhesives (packaging, bookbinding, diapers)	Precise viscosity control from a renewable source.
13	Hydrocarbons	Candles	Bio-Wax Blends	Home fragrance candles, religious candles	Clean-burning alternative to toxic paraffin smoke and soy.
14	Hydrocarbons	Agriculture	Crop Oil Concentrates	Carriers for pesticides/herbicides to improve leaf adhesion	Reduces soil toxicity and improves crop yield efficiency.
15	Proteins	Aquaculture Feed	High-Protein Algae Meal	Feed for salmon, shrimp, and tilapia	Breaks the reliance on wild-caught fish meal in aquaculture.
16	Proteins	Livestock & Pet Feed	Algae Protein Concentrate	Premium dog food, poultry feed layers	Non-GMO, land-efficient protein source for animal health.
17	Proteins	Human Food & Nutrition	Algae Protein Isolate	Meat alternatives, protein shakes, functional foods	A complete plant-based protein profile for the future of food.
18	Specialties	Industrial Enzymes	Extracted Biocatalysts (Lipase, Cellulase)	Detergents, biofuel processing, food processing	High-efficiency biological tools for green chemistry.