

# Natural Health Products Expertise in Functional Lipids

**NRC-CMRC**

**Aquatic and Crop Resource Development**

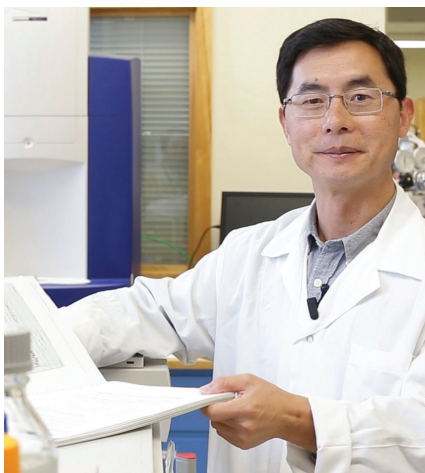
## Leverage NRC's expertise

Go beyond your core talent with NRC's Natural Health Products (NHP) program. When you supplement your experts and capabilities with ours, you enlist an ally committed to—and measured by—your success.

Fortify your team with NRC's NHP expertise to co-develop new and differentiated products, all backed by science. We can enable you to expand your existing product lines, create value from waste streams and shorten your product development cycles.

## Customized lipid solutions for you

Lipids from plants, seeds, algae and other marine resources can serve as functional ingredients, value-added byproducts and delivery-system technology for NHPs.



While lipids are well-established ingredients, NRC's NHP team can help you to identify specific ways to further leverage and differentiate them to your advantage.

Complement your staff's in-house expertise by adding NRC as a preclinical research ally. Together we can:

- co-develop safe, effective and differentiated NHPs and functional ingredients
- demonstrate Canadian quality
- derive lipids from biomass and biomass waste streams
- determine impurities
- increase your sales revenue

Let us share our expertise, specialized equipment, research technologies and processes to help you solve the technical challenges you face in product line extensions, new product introduction, quality assurance and control and obtaining health claims. We can also contribute to reducing your product-development risks before you invest in expensive safety studies and clinical trials.

Our preclinical studies and scientific evidence can assist you with ensuring compliance in today's increasingly regulated NHP environment. With these essential steps behind you, broader market opportunities open up for your products. We will also aim to shorten



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**Canada**

## Natural Health Products Program

your product development cycle to present you with first-to-market benefits as well as R&D savings.

### The NRC advantage

Aside from developing and commercializing approved NHPs and novel ingredients, you want to outpace your global competition. NRC can help.

### Functional lipids expertise

Through the NHP program, you will benefit from access to highly skilled researchers with extensive experience in: lipid characterization; quality analysis; evaluation and comparison; quality control (QC) method development and validation; reference material development and certification; and customized analytical solutions. Our researchers can:

- identify and quantify diverse lipids
- characterize lipid structure
- detect contaminants and product adulterations
- develop reference materials and standards
- profile lipids in non-destructive ways from seeds, tissue or cells

### Contact

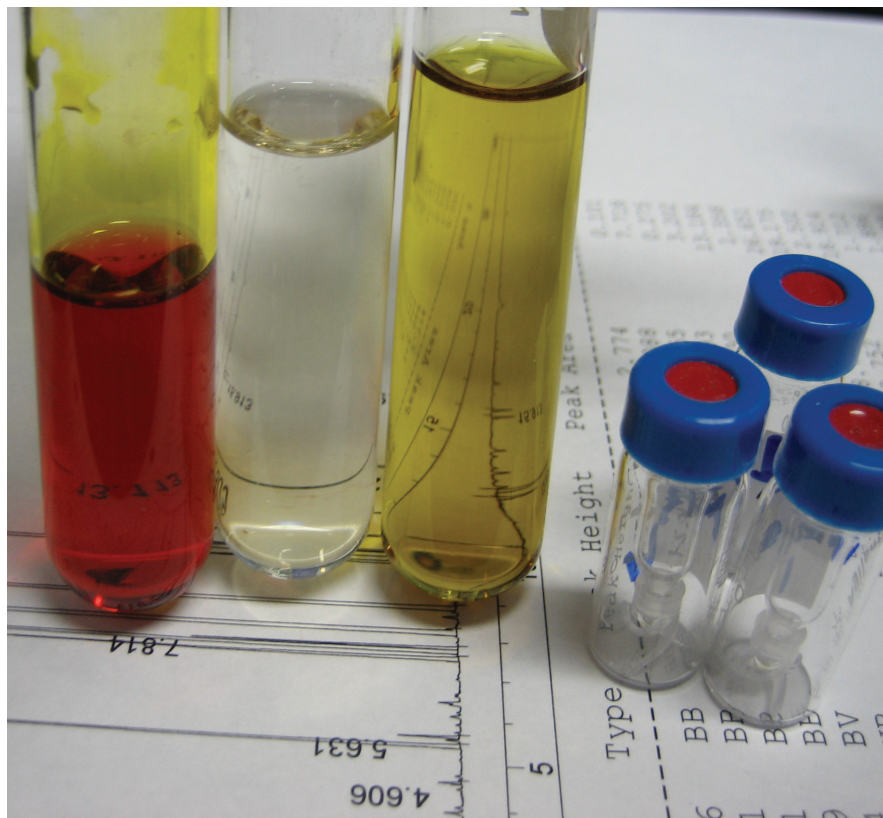
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[www.nrc-cnrc.gc.ca/eng/solutions/collaborative/nhp\\_index.html](http://www.nrc-cnrc.gc.ca/eng/solutions/collaborative/nhp_index.html)



### Technology capabilities

- Lab-scale lipid extraction methods and purification technologies
- Chemical markers for quality to identify source origin and adulteration
- Integrated analytical platforms for custom characterization and quantification

- Single sample characterization or multi-sample, high-throughput analysis

Depend on NRC to accelerate your product development and functional ingredients involving lipids such as polyunsaturated fatty acids, triacylglycerols, phospholipids, sterols, tocopherols, essential oils, waxes and more.

### Get started today

Contact NRC to discuss product co-development opportunities, unique research technologies or technical services that match NRC capabilities to your specific research and product needs.

