



US 20080274203A1

(19) **United States**

(12) **Patent Application Publication**
Bruheim et al.

(10) **Pub. No.: US 2008/0274203 A1**

(43) **Pub. Date: Nov. 6, 2008**

(54) **BIOEFFECTIVE KRILL OIL COMPOSITIONS**

Publication Classification

(75) Inventors: **Inge Bruheim**, Volda (NO); **Mikko Griinari**, Espoo (FI); **Snorre Tilseth**, Bergen (NO); **Sebastiano Banni**, Cagliari (IT); **Jeffrey Stuart Cohn**, Camperdown (AU); **Daniele Mancinelli**, Orsta (NO)

(51) **Int. Cl.**
A61K 35/56 (2006.01)
A61K 31/661 (2006.01)
A61K 31/685 (2006.01)
A61P 3/02 (2006.01)
A23D 9/00 (2006.01)
A61K 31/66 (2006.01)

Correspondence Address:
Casimir Jones, S.C.
440 Science Drive, Suite 203
Madison, WI 53711 (US)

(52) **U.S. Cl. 424/522; 514/121; 514/78; 514/114; 426/601**

(73) Assignee: **AKER BIOMARINE ASA**, Oslo (NO)

(57) **ABSTRACT**

(21) Appl. No.: **12/057,775**

(22) Filed: **Mar. 28, 2008**

This invention discloses new krill oil compositions characterized by having high amounts of phospholipids, astaxanthin esters and/or omega-3 contents. The krill oils are obtained from krill meal using supercritical fluid extraction in a two stage process. Stage 1 removes the neutral lipid by extracting with neat supercritical CO₂ or CO₂ plus approximately 5% of a co-solvent. Stage 2 extracts the actual krill oils by using supercritical CO₂ in combination with approximately 20% ethanol. The krill oil materials obtained are compared with commercially available krill oil and found to be more bioeffective in a number of areas such as anti-inflammation, antioxidant effects, improving insulin resistances and improving blood lipid profile.

Related U.S. Application Data

(60) Provisional application No. 60/920,483, filed on Mar. 28, 2007, provisional application No. 60/975,058, filed on Sep. 25, 2007, provisional application No. 60/983,446, filed on Oct. 29, 2007, provisional application No. 61/024,072, filed on Jan. 28, 2008.

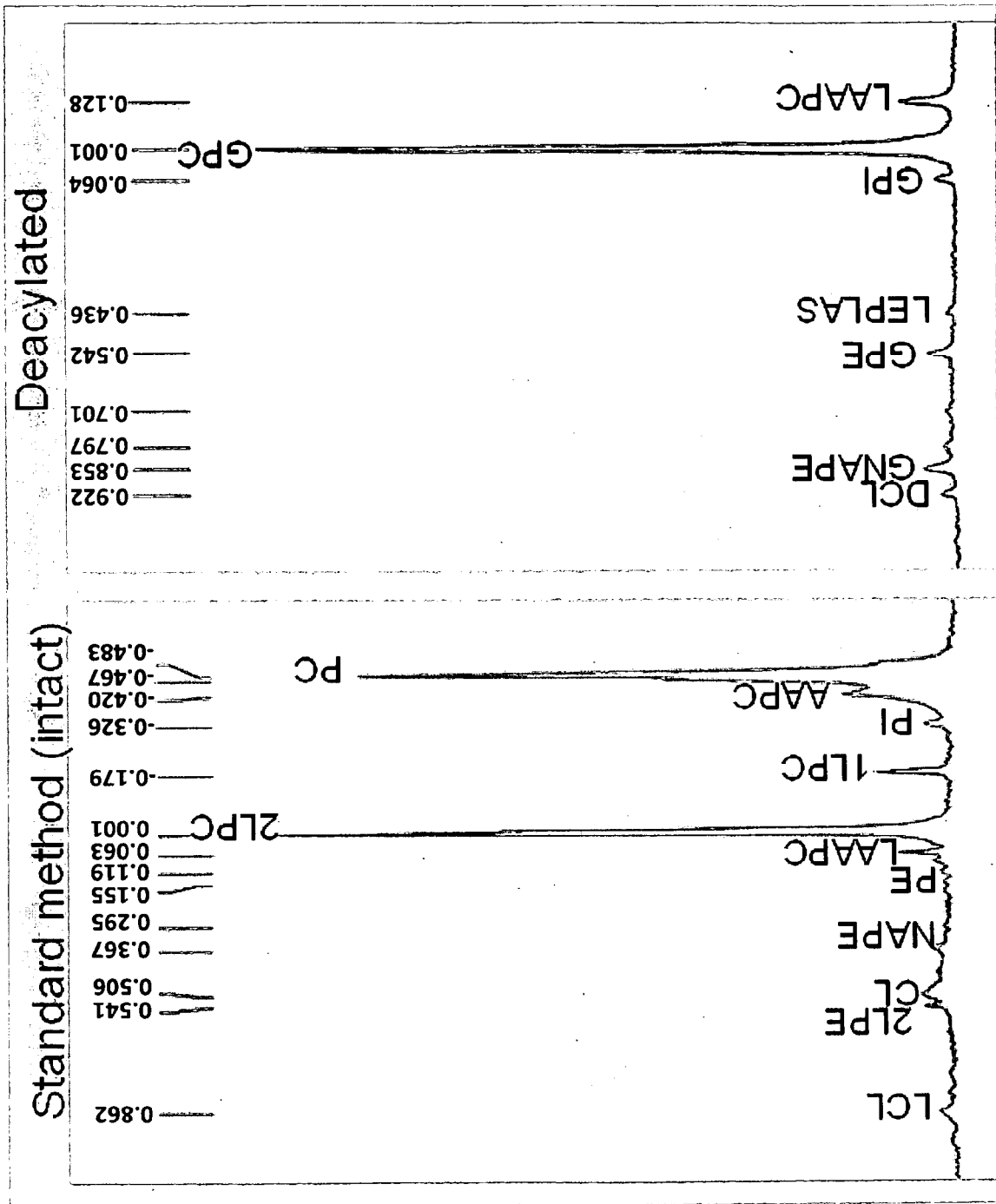


FIGURE 1

FIGURE 2

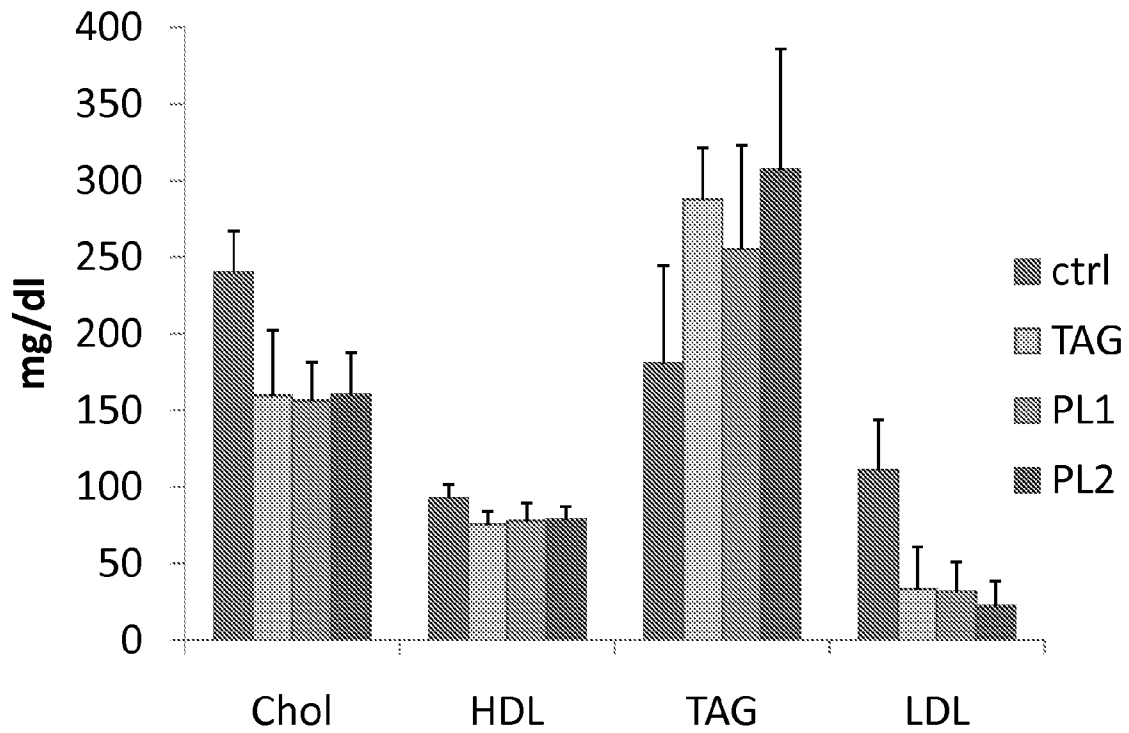


FIGURE 3

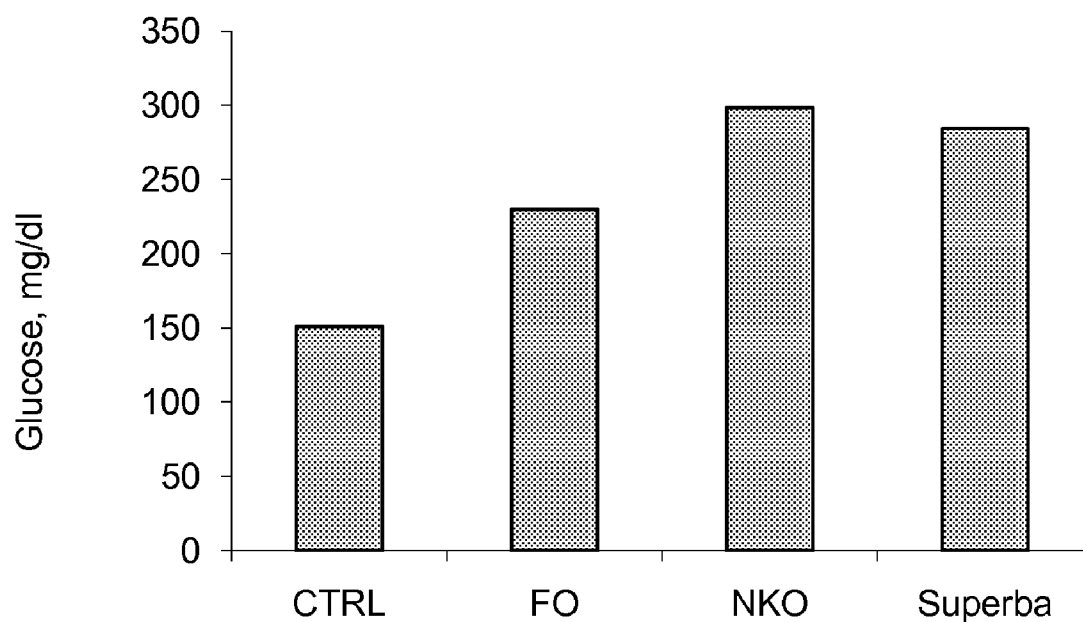
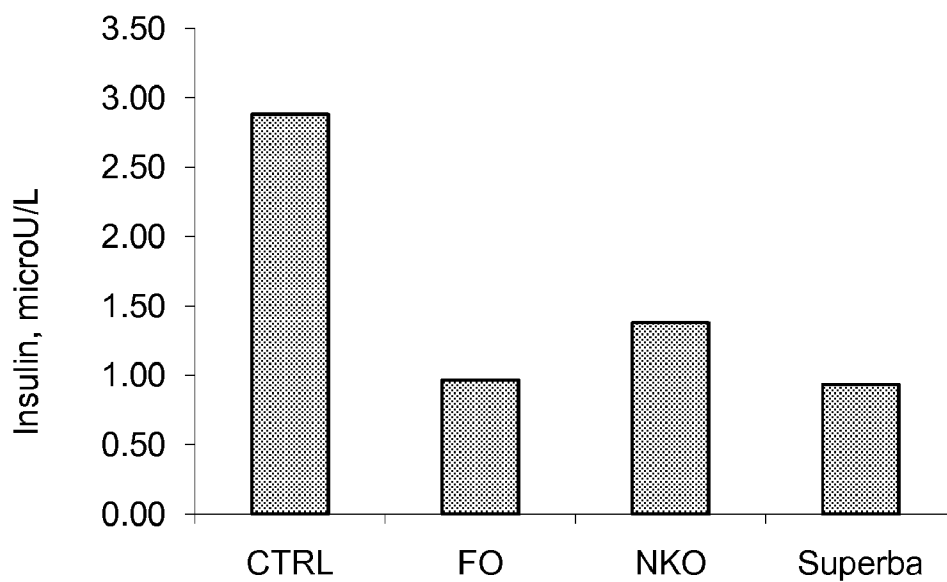


FIGURE 4



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.