

AK BioTech

Hj Omega-3

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# MEGANOL - E

## HIGHLY PURIFIED EPA



- EPA UP TO 95%(DHA FREE)
- FROM ANCHOVY OIL

**E95D00** EE / TG (EPA 95%, DHA FREE) **EPA 930mg/g**

**E90D00** EE / TG (EPA 90%, DHA FREE) **EPA 880mg/g**

**E80D00** EE / TG (EPA 80%, DHA FREE) **EPA 770mg/g**

**E70D00** EE / TG (EPA 70%, DHA FREE) **EPA 670mg/g**

**E60D00** EE / TG (EPA 60%, DHA FREE) **EPA 570mg/g**

## SPECIFICATION SHEET

TYPICAL ANALYSIS :

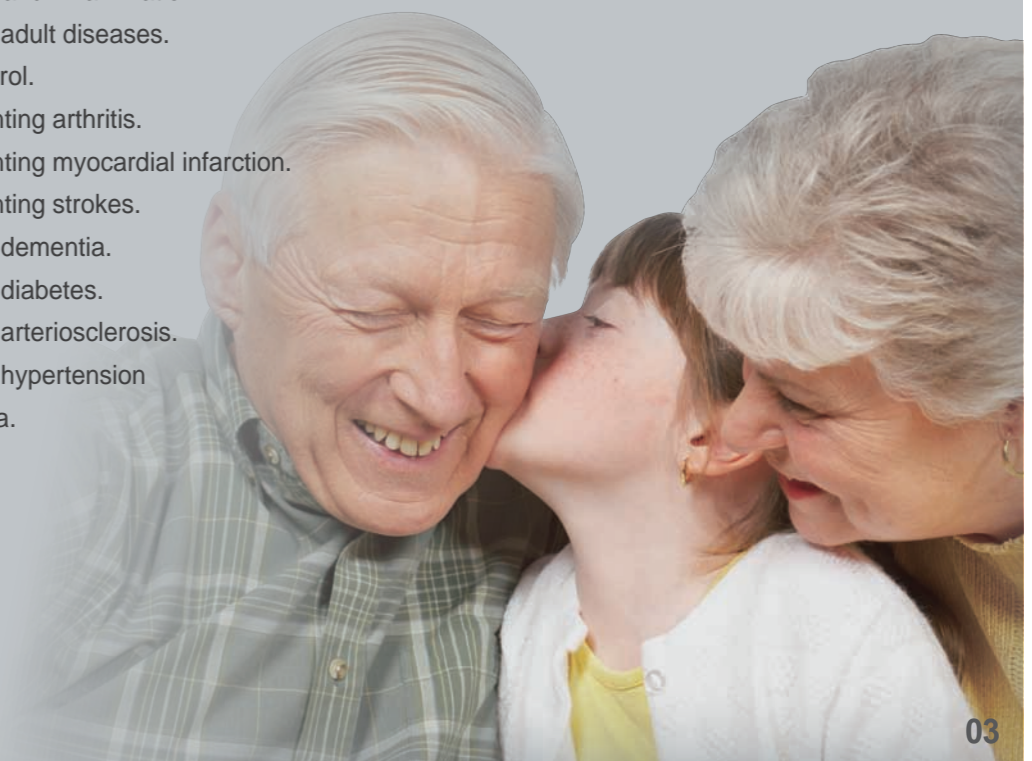
Items	Standard	Method
Appearance	Clear liquid	-
Odor	Very light fish odor	-
Concentration (GC Area %)	EPA not less than 95% DHA not more than 0%	AOCS Ce 1b-89
Acid Value	Not more than 3.0 mg KOH/g	AOCS Cd 3d-63
Peroxide Value	Not more than 5.0 meq/kg	AOCS Cd 8-53
p-Anisidine	Not more than 20	AOCS Cd 18-90
TOTOX	Not more than 26	-
Lead (Pb)	Not more than 0.1 ppm	ICP-MS
Arsenic (As)	Not more than 0.1 ppm	ICP-MS
Mercury (Hg)	Not more than 0.1 ppm	ICP-MS
Cadmium (Cd)	Not more than 0.1 ppm	ICP-MS
PCBs	Max. 0.09mg/kg	-
PCDDs & PCDFs	Max 2 pg/g	-
Dioxin-like PCBs	Max 3 pg/g	-
<i>E. coli</i>	Negative	-

## The Newest Technologies & Facilities



## Health Benefits

- The prevention of heart diseases caused by blood coagulation and inflammation.
- The prevention of adult diseases.
- Reduced cholesterol.
- Effective in preventing arthritis.
- Effective in preventing myocardial infarction.
- Effective in preventing strokes.
- The prevention of dementia.
- The prevention of diabetes.
- The prevention of arteriosclerosis.
- The prevention of hypertension and hyperglycemia.



# MEGANOL - D

## HIGHLY PURIFIED DHA



- DHA UP TO 85%(EPA 5% UNDER)
- FROM TUNA OIL

<b>DHA85</b>	EE / TG (DHA 85%)	<b>DHA 780mg/g</b>
<b>DHA80</b>	EE / TG (DHA 80%)	<b>DHA 730mg/g</b>
<b>DHA75</b>	EE / TG (DHA 75%)	<b>DHA 680mg/g</b>
<b>DHA70</b>	EE / TG (DHA 70%)	<b>DHA 630mg/g</b>
<b>DHA60</b>	EE / TG (DHA 60%)	<b>DHA 530mg/g</b>

## SPECIFICATION SHEET

TYPICAL ANALYSIS :

Items	Standard	Method
<b>Appearance</b>	Clear liquid	-
<b>Odor</b>	Very light fish odor	-
<b>Concentration (GC Area %)</b>	EPA not more than 5% DHA not less than 85%	AOCS Ce 1b-89
<b>Acid Value</b>	Not more than 3.0 mg KOH/g	AOCS Cd 3d-63
<b>Peroxide Value</b>	Not more than 5.0 meq/kg	AOCS Cd 8-53
<b>p-Anisidine</b>	Not more than 20	AOCS Cd 18-90
<b>TOTOX</b>	Not more than 26	-
<b>Lead (Pb)</b>	Not more than 0.1 ppm	ICP-MS
<b>Arsenic (As)</b>	Not more than 0.1 ppm	ICP-MS
<b>Mercury (Hg)</b>	Not more than 0.1 ppm	ICP-MS
<b>Cadmium (Cd)</b>	Not more than 0.1 ppm	ICP-MS
<b>PCBs</b>	Max. 0.09mg/kg	-
<b>PCDDs &amp; PCDFs</b>	Max 2 pg/g	-
<b>Dioxin-like PCBs</b>	Max 3 pg/g	-
<b>E. coli</b>	Negative	-

## The Quality Maintenance System by GMP



## Health Benefits

- Pre- & Postnatal Health
- Cognitive Health
- Good for Eye Health
- Brain development.
- Stabilized nervous tissue.
- Improvement in eyesight.
- The prevention of ocular diseases.
- The prevention of atopic dermatitis.



# MEGANOL - ED

HIGHLY PURIFIED EPA & DHA



- EPA + DHA UP TO 90%
- PHARMACEUTICAL GRADE

**E10D70** EE/TG (EPA10% , DHA70%)  
**E20D60** EE/TG (EPA20% , DHA60%)  
**E40D45** EE/TG (EPA40% , DHA45%)  
**E50D40** EE/TG (EPA50% , DHA40%)  
**E70D20** EE/TG (EPA70% , DHA20%)  
**E80D10** EE/TG (EPA80% , DHA10%)

## SPECIFICATION SHEET

TYPICAL ANALYSIS :

Items	Standard	Method
Appearance	Clear liquid	-
Odor	Very light fish odor	-
Concentration (GC Area %)	EPA not less than 10% DHA not less than 70%	AOCS Ce 1b-89
Acid Value	Not more than 3.0 mg KOH/g	AOCS Cd 3d-63
Peroxide Value	Not more than 5.0 meq/kg	AOCS Cd 8-53
p-Anisidine	Not more than 20	AOCS Cd 18-90
TOTOX	Not more than 26	-
Lead (Pb)	Not more than 0.1 ppm	ICP-MS
Arsenic (As)	Not more than 0.1 ppm	ICP-MS
Mercury (Hg)	Not more than 0.1 ppm	ICP-MS
Cadmium (Cd)	Not more than 0.1 ppm	ICP-MS
PCBs	Max. 0.09mg/kg	-
PCDDs & PCDFs	Max 2 pg/g	-
Dioxin-like PCBs	Max 3 pg/g	-
<i>E. coli</i>	Negative	-

## Constant Research & Investment for New Applications



## Health Benefits

- Omega-3 lowers the risk of fatal arrhythmia, resulting in reducing the recurrence of a heart disease. ("Circulation", the Journal of American College of Cardiology)
- Much intake of Omega-3 reduces the risk of prostate cancer by half. ("Lancet", the English Medical Journal)
- Country having high fish consumption rate per capita has the low incidence of depression. (American Psychiatric Association)
- Omega-3 lowers the mortality risk of a patient with a heart attack. ("Lancet", the English Medical Journal)
- Omega-3 fatty Acids contained in Omega-3 reduce the symptom of a patient with bipolar disorder. (Brigham and Women's Hospital in the US)
- Omega-3 alleviates the pain of rheumatoid arthritis in the joint. (Brigham and Women's Hospital in the US)
- Omega-3 reduces the symptom of schizophrenia by 25%. (The University of Sheffield in the UK)



# AK BioTech's STRENGTHS



- Stably supplying all formulations by using isolation and blending technologies of EPA & DHA
- Contributing to our health by removing heavy metals & PCBs through AK BioTech's own technologies.
- Support from Aekyung Group in R&D and investment for new technologies & applications.



Dietary Supplement Food

Soft Capsule Chewable Capsule

EE / TG Enzyme TG

Powder Emulsion

Pharmaceutical grade

## Prepared Certificates of AK



## Any Application You Need



- MAY. 2009 : Certificate of Corporate Annex Research Institute
- AUG. 2009 : ISO 14001 & ISO 9001
- AUG. 2009 : HALAL Certificate
- AUG. 2009 : KOREA HACCP
- AUG. 2009 : EU HACCP
- SEP. 2009 : FDA Certificate
- NOV. 2009 : Venture Company Certificate
- DEC. 2009 : Promising Export Firm Certificate
- FEB. 2010 : Certificate of Health Functional Food Manufacturer
- AUG. 2010 : Processing of GMP (Good Manufacturing Practice) Certificate

## CHEMICAL BUSINESS DIVISION

Technology to make your life convenient

Aekyung Improves your lifestyle by developing the chemical industry.

- AEKYUNG PETEROCHEMICAL
- ✓ **AK BIOTECH**
- AK CHEMTECH
- AEKYUNG CHEMICAL



## DISTRIBUTION & IMMOVABLE BUSINESS DIVISION

Happiness to accomplish an affluent life

When you want to enjoy a special experience out of ordinary, live a beautiful and happy life with Aekyung.

- AEKYUNG OIL AND FAT
- AK PLAZA (GURO)
- AK PLAZA (SUWON)
- AK PLAZA (PYUNGTEAK)
- AEKYUNG HOLDINGS
- AEKYUNG NETWORK
- AEKYUNG DEVELOPMENT



**Aekyung GROUP**

**AK BioTech**

## HOUSEHOLD PRODUCTS BUSINESS DIVISION

A choice for a happy life

With a mind that one of my family members will use, we are devoting ourselves to make necessary products or services in life even today

- AEKYUNG
- A.K.I.S
- ATEC
- AEKYUNG S.T
- AEKYUNG PNT
- AD MISSION
- JEJU AIR
- NEOPHARM



## OVERSEAS BUSINESS DIVISION

A worldwide approved global leading company

We imagine for a moment that our children will grow and play the lead role on the world stage. Entering world market. Aekyung will open the way in advance

- FOSHAN AEKYUNG PAINT
- TIAN JIN AEKYUNG PAINT
- AEKYUNG CHEMICAL (SHANGHAI)
- AEKYUNG HONG KONG
- AK VINA



# OUR MISSION

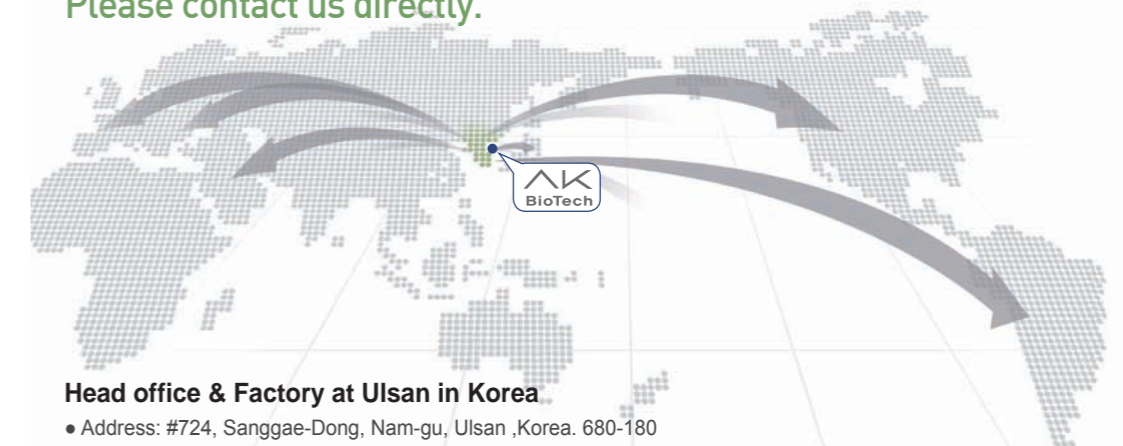
## HEALTHY & HAPPY LIFE WITH OMEGA-3

- Popularizing value-added products with high purity using cutting-edge technologies.
- AK BioTech makes contributions to the health of humankind by creating the best-quality products and value based on creative human resources and new technologies.
- Aiming to become the world's best specialty company in the field of Omega-3.



dreams a leading company of Aekyung group

For more information about our products and services, Please contact us directly.



### Head office & Factory at Ulsan in Korea

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