

PATIENT: XXXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ

COLLECTED: XX/XX/XXXX
RECEIVED: XX/XX/XXXX

XX/XX/XXXX

TESTED:

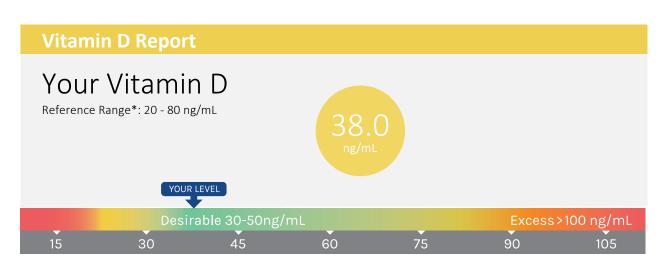
PRACT

TEST REF: TST-NL-XXXX
PRACTITIONER:

XXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXXX

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)



^{*} Reference Range is representative of a normal patient population.

The Vitamin D test measures the level of total Vitamin D in your blood and is equivalent to 25-hydroxyvitamin D2 and D3 in plasma. It reflects your Vitamin D status over the past 1-2 months. As a part of a healthy lifestyle, a Vitamin D blood level in the **30-50 ng/mL** range may help support metabolic, heart, brain and immune health. Vitamin D blood levels >100 ng/mL are above the recommended range and may lead to toxicity symptoms. Most people can achieve and maintain a desirable Vitamin D level through lifestyle habits like sun exposure, diet, and supplementation.

Vitamin D3 is produced by our body when our skin is exposed to sunlight, unprotected by sunscreen. Our bodies are very efficient when it comes to producing Vitamin D3 this way. For example, our body can produce ~200 international units (IU) of Vitamin D3 after brief UVB sunlight exposure of the arms and face (~5 minutes, without sunscreen). The precise amount of Vitamin D3 produced will vary depending on factors such as skin pigmentation, geographical location, season, and time of the day. *Please consult with your doctor before increasing unprotected sun exposure*.

The best dietary sources of Vitamin D come from fish like salmon, tuna, and mackerel, and small amounts are also found in mushrooms and egg yolks. Fortified dairy products like milk are an important dietary source of Vitamin D, but the amount of Vitamin D present in these foods is low. Overall, there are very few foods in nature that contain high amounts of Vitamin D.

Vitamin D supplements are an effective way to achieve and maintain a desirable Vitamin D level. Most pharmacies carry Vitamin D in doses of 400 IU to 2,000 IU per tablet, but some formulations are as high as 10,000 IU per tablet. The National Academy of Medicine recommends an upper limit of 4,000 IU of Vitamin D per day. There are virtually no side effects with Vitamin D when taken in appropriate doses. Vitamin D toxicity can occur with excessive supplementation and results in calcium levels becoming too high, but this is extremely rare.

The amount of Vitamin D needed to raise the blood Vitamin D level into the desirable range is different for everybody. Many factors – age, sex, weight, genetics, geographical location, skin pigmentation, medications, and other medical conditions – can all influence the body's response to Vitamin D. Still, we can provide an estimate, based on research, of how much Vitamin D you may need to raise your level into the desirable range given your current Vitamin D level.

Please consult your doctor before making any changes to your diet, supplementation regimen, or unprotected sun exposure. If you increase your intake of Vitamin D or sun exposure, your Vitamin D level will begin to slowly go up within a few days but will continue to change for several months. We recommend that you re-measure your Vitamin D level every 3-4 months while adjusting your intake until you reach the desirable range. Once you reach the desirable range for Vitamin D, we recommend that you re-test every 6 months and adjust your intake accordingly.

Nordic Laboratories Aps

Nygade 6, 3.sal • 1164 Copenhagen K • Denmark Tlf. +45 33 75 10 00 **UK Office:**

11 Old Factory Buildings • Stonegate • E. Sussex TN5 7DU • UK Tel: +44 (0)1580 201 687

Page 1 of 1 www.nordic-labs.com info@nordic-labs.com



PATIENT: XXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ

COLLECTED: XX/XX/XXXX
RECEIVED: XX/XX/XXXX

XX/XX/XXXX

TESTED:

PRACTITIONER:

xxxxxxxxxxxxxxxx

TEST REF: TST-NL-XXXX

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)



^{*} Reference Ranges encompass about 99% of fatty acids levels measured in US adults.

The Omega-3 Index is the proportion of long-chain omega-3s, eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), of all fatty acids in your red blood cell membranes. It reflects the omega-3 status of your body over the last 4 months, similar to how hemoglobin A1C reflects long-term glucose blood levels. As a part of an overall healthy lifestyle, an Omega-3 Index in the **8-12%** range may help to maintain heart, brain, eye and joint health. To increase your Omega-3 Index, eat foods rich in EPA and DHA, especially "oily" fish such as those in the accompanying table. They can also be obtained from dietary supplements (fish, krill, cod liver, algal oils) and functional foods (omega-3 enriched milk, eggs, etc.).

The amount of EPA and DHA needed to raise the Omega-3 Index into the desirable range is different for everybody. Many factors – age, sex, weight, diet, genetics, smoking habits, medications, and other medical conditions – can all influence the body's response to EPA and DHA. Still, we can provide an estimate, based on our own research, of how much EPA and DHA you may need to raise your level to the desirable range given your current Omega-3 Index level.

The other main dietary omega-3 fatty acid, alpha-linoleic acid (ALA), is found in walnuts, flax and chia seeds. ALA can be converted to EPA and DHA in the body, but this happens at a very low rate in most people. An increase in ALA intake will have little to no effect on the Omega-3 Index.

Please consult with your healthcare provider before making any dietary changes. If you increase your intake of EPA and DHA, your Omega-3 Index will begin to slowly go up within a few days but will continue to change for 3-4 months. We recommend that you re-measure your Omega-3 Index in 3-4 months until you reach the desirable range. Once you reach the desirable range for Omega-3 Index, we recommend that you re-test every 6 months.



PATIENT: XXXXXXXXXXXXXXXXXX TEST REF: TST-NL-XXXX TEST NUMBER: T-NL-XXXXX (XXXXXXXXXXX)

GENDER: XYZ COLLECTED: XX/XX/XXXX RECEIVED: XX/XX/XXXX TESTED: XX/XX/XXXX

PRACTITIONER XXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)



Omega-6:Omega-3

Reference Range*: 1.9:1 - 14.6:1



AA:EPA

Reference Range: 1.1:1 - 69.1:1*



^{*} Reference Ranges encompass about 99% of fatty acids levels measured in US adults.

Omega-6:Omega-3 (n6:n3) ratio is calculated by dividing the sum of seven omega-6 fatty acids by the sum of four omega-3 fatty acids in whole blood. Only one omega-6 fatty acid, arachidonic acid (AA), and one omega-3 fatty acid, eicosapentaenoic acid (EPA), make up the AA:EPA ratio. The desirable range for the Omega-6:Omega-3 ratio is 3:1 to 5:1, and the desirable range for the AA:EPA ratio is 2.5:1 – 11:1. The desirable ranges for the ratios were calculated to correspond to the desirable range for the Omega-3 Index due to the strong relationship between among these metrics.

Higher omega-3 blood levels are strongly related to improved health and longevity. Similarly, higher - not lower - blood levels of the main omega-6 fatty acid, linoleic acid, have been associated with better heart and metabolic health. AA blood levels alone are a poor predictor of health outcomes. There is considerable controversy regarding increased omega-6 intake and health; therefore, we propose to aim for a low ratio by raising omega-3 blood levels.

Please consult with your healthcare provider before making any dietary changes. The best way to lower both the Omega-6:Omega-3 and the AA:EPA ratios is to consume more omega-3 EPA and DHA from fish or supplements (see attached table). Omega-6 blood levels are less responsive to dietary changes than omega-3 blood levels. Therefore, we do not recommend lowering your intake of omega-6s as a strategy to correct these ratios, but rather raising your intake of EPA and DHA. It will take 3-4 months for these ratios to reach their new levels and we recommend re-testing at that time.

Nordic Laboratories Aps

Nygade 6, 3.sal • 1164 Copenhagen K • Denmark Tlf. +45 33 75 10 00

11 Old Factory Buildings • Stonegate • E. Sussex TN5 7DU • UK Tel: +44 (0)1580 201 687

Page 2 of 7 www.nordic-labs.com info@nordic-labs.com



PATIENT: XXXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ
AGE: XX

COLLECTED: XX/XX/XXXX
RECEIVED: XX/XX/XXXX
TESTED: XX/XX/XXXX

PRACTITIONER:

xxxxxxxxxxxxxxxxx

TEST REF: TST-NL-XXXX

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)



^{*} Reference Ranges encompass about 99% of US adults.

The Trans Fat Index is the percent of 18:1 and 18:2 *trans* fatty acids of total fatty acids in red blood cell membranes, and the desirable range is <1%. *Trans* fatty acids (or *trans* fats) in our blood come only from the food we eat because our bodies cannot make them. *Trans* fats in the diet come from two sources: 1) industrial production by the "partial hydrogenation" of vegetable oils, in which liquid oils are converted into solid fats to be used in processed foods, and 2) meat and milk products of ruminant animals, like cows and goats. The fatty acids that make up the Trans Fat Index were chosen because they were typically found in processed foods, but a small amount may come from ruminant sources.

Higher intakes of *trans* fats from processed foods have led to higher Trans Fat Index levels. High *trans* fat blood levels and intake have been strongly related to heart disease. As such, the World Health Organization (WHO) has called on all countries to remove *trans* fats from their food supplies by 2023, and many countries have already achieved this. The relationship between ruminant *trans* fats and heart disease is not as clear. The amount of ruminant *trans* fats typically present in meat and dairy are very low, so normal intakes of these foods probably will not result in a high Trans Fat Index.

Traditionally, *trans* fats were abundant in processed foods, like baked goods, chips, and microwave popcorn. As *trans* fats have been removed from the food supply, however, eating processed foods has become less connected to blood *trans* fat levels. For example, since 2009, the average Trans Fat Index measured at OmegaQuant has decreased by half (from 1.7% to 0.8%), and in 2017 more than half of the samples submitted to OmegaQuant have a Trans Fat Index of <1%. Still, if you ate a lot of processed food in the past, your Trans Fat Index may be elevated.

Please consult with your healthcare provider before making any dietary changes. If your Trans Fat Level is <1%, there is no need to change your diet. If your Trans Fat Level is <1%, you may still be releasing stored *trans* fats that have built up over the years. Eating less processed food ensures you will not be eating any "hidden" *trans* fats that may still be in the food supply. We recommend you re-test every 6 months until your levels are <1%.



PATIENT: XXXXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ AGE: XX COLLECTED: XX/XX/XXXX
RECEIVED: XX/XX/XXXX
TESTED: XX/XX/XXXX

TEST REF: **TST-NL-XXXX**PRACTITIONER:

XXXXXXXXXXX

xxxxxxxxxxxxxxxxx

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)

Complete Fatty Acid Report

Fatty Acid Group	Whole Blood Level	Reference Range*	
Omega-3 Fatty Acids	5.62%	2.57 – 15.14%	
Omega-3 Index	6.10%	2.80 – 15.4%	
Alpha-Linolenic (18:3n3)	0.43%	0.10 - 1.90%	
Eicosapentaenoic (EPA, 20:5n3)	0.85%	0.14 - 6.92%	
Docosapentaenoic-n3 (22:5n3)	0.99%	0.53 - 2.81%	
Docosahexaenoic (DHA, 22:6n3)	3.35%	1.00 - 6.50%	
Omega-6 Fatty Acids	35.41%	24.85 – 44.15%	
Linoleic (18:2n6)	22.00%	14.0 – 31.3%	
Gamma-Linolenic (18:3n6)	0.44%	0.05 - 0.72%	
Eicosadienoic (20:2n6)	0.19%	0.10 - 0.43%	
Dihomo-y-linolenic (20:3n6)	1.36%	0.50 – 2.50%	
Arachidonic (AA, 20:4n6)	10.34%	5.0 – 14.8%	
Docosatetraenoic (22:4n6)	0.81%	0.30 - 2.50%	
Docosapentaenoic-n6 (22:5n6)	0.27%	0.08 - 0.83%	
cis-Monounsaturated Fatty Acids	23.55%	15.65 – 31.82%	
Palmitoleic (16:1n7)	1.62%	0.13 – 2.90%	
Oleic (18:1n9)	20.85%	14.2 – 29.5%	
Eicosenoic (20:1n9)	0.16%	0.10 - 0.77%	
Nervonic (24:1n9)	0.92%	0.13 - 1.96%	
Saturated Fatty Acids	35.00%	29.89 – 42.10%	
Myristic (14:0)	1.13%	0.10 - 2.45%	
Palmitic (16:0)	22.88%	17.5 – 27.1%	
Stearic (18:0)	9.48%	8.40 - 15.0%	
Arachidic (20:0)	0.15%	0.10 - 0.53%	
Behenic (22:0)	0.57%	0.20 - 1.59%	
Lignoceric (24:0)	0.79%	0.20 - 1.92%	
Trans Fatty Acids	0.45%	0.30 - 2.02%	
Trans Palmitoleic (16:1n7t)	0.09%	0.10 - 2.45%	
Trans Oleic (18:1t)	0.24%	0.00 - 0.51%	
Trans Linoleic (18:2n6t)	0.12%	0.07 - 0.92%	
Trans Fat Index	0.36%	0.22 – 1.99%	
Ratios			
AA:EPA	12.2:1	1.1:1 - 69.2:1	
Omega-6:Omega-3	6.3:1	1.9:1 - 14.6:1	

^{*} Reference Ranges encompass about 99% of fatty acids levels measured in US adults.

Nordic Laboratories Aps

Nygade 6, 3.sal • 1164 Copenhagen K • Denmark Tlf. +45 33 75 10 00 UK Office:

11 Old Factory Buildings • Stonegate • E. Sussex TN5 7DU • UK Tel: +44 (0)1580 201 687

Page 4 of 7 www.nordic-labs.com info@nordic-labs.com



PATIENT: XXXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ
AGE: XX

COLLECTED: XX/XX/XXXX
RECEIVED: XX/XX/XXXX

XX/XX/XXXX

TESTED:

PRACTITIONER:

TEST REF: TST-NL-XXXX

xxxxxxxxxxxxxxxx

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)

Complete Fatty Acid Report

Using fatty acid profiles to assess health is a new and evolving field. There is not agreement in the scientific community on what many fatty acid levels "mean" for health. Besides the Omega-3 index and Trans Fat Index, the additional fatty acid values provided here are primarily for your information. In addition, individual fatty acid values are from whole blood (including plasma, red and white blood cells), while the Omega-3 index is a level of omega-3s in red blood cells specifically. Please consult with your healthcare provider before making any dietary changes based on these results.

Omega-3 Fatty Acids

The four omega-3 fatty acids reported here include the "plant" omega-3 (alpha-linolenic acid, ALA) and the three "marine" omega-3s (EPA, DHA and DPA n-3). ALA is one of the two essential fatty acids in the diet, meaning, like a vitamin, we cannot make it and have to get it from our diet. An adequate intake of ALA is about 1.5 grams per day, which is about the average intake in the US. ALA comes primarily from soybean and canola oil (which are a component of many processed foods), but also specialty foods/oils are particularly rich sources, e.g., chia seed oil, flaxseed oil, black walnuts.

Technically, the marine fatty acids are not essential because they can be made from ALA by the body. However, the conversion process from ALA to EPA and DHA is very inefficient in most adults, which makes getting EPA and DHA from the diet important. Please note that the EPA and DHA v alues listed do not add up to the Omega-3 Index. This is because the EPA and DHA levels are from whole blood levels, and the Omega-3 Index is from red blood cells. At present, there is not enough research to recommend target blood levels for ALA or DPA n-3.

Omega-6 Fatty Acids

We measure levels of seven fatty acids in the omega-6 family, but linoleic (LA) and arachidonic acids (AA) make up the vast majority of the total omega-6 level. LA is an essential fatty acid, like ALA, and is the starting material for the synthesis of the other omega-6s. The level of LA in your blood is largely influenced by the amount of LA you eat. LA is found in foods ranging from processed foods to vegetable oils to seeds and nuts. The level of AA in the blood is more controlled by metabolism than LA, but a diet high in meat and eggs can slightly increase it. The other five omega-6 fatty acids are primarily determined by your body's metabolism and are less well studied. The adequate intake for LA as an essential fatty acid currently is set at 11-14 grams per day for women and 14-16 grams per day for men.

There is controversy regarding whether LA and AA (or omega-6s in general) are "good" or "bad" for our health. Some studies link higher intake of omega-6s to higher inflammation in the body, which is a part of many chronic disease processes. This is partially because AA is the starting material for the production of many pro-inflammatory molecules. Others disagree, noting that in many studies, higher amounts of LA in the diet or in the blood are associated with better heart and metabolic health. Clearly, more research is needed.



PATIENT: XXXXXXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ XX

COLLECTED: XX/XX/XXXX RECEIVED: XX/XX/XXXX

XX/XX/XXXX

TESTED:

TEST REF: TST-NL-XXXX XXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)

Complete Report

cis-Monounsaturated Fatty Acids ("Monos")

There are four fatty acids in this class, but 95% of "monos" are from one fatty acid, oleic acid. Oleic acid is in many vegetable oils, including olive, canola, safflower, sunflower, and soybean. It is a part of virtually everyone's diet, and it is also made by the body, i.e., it's not an "essential" fatty acid. Although found in relatively high amounts in the blood of people on a Mediterranean Diet (due to the large intake of olive oil), the relationship between blood oleic acid levels and health is somewhat controversial. We cannot provide a strong, research-based recommendation for a desirable blood oleic acid range or corresponding dietary advice to change levels. Because oleic acid levels come from both what you eat and what your body makes, it is difficult to change blood levels and it is unknown if simply changing them has any impact on your health.

The other fatty acid in this family that merits comment is palmitoleic acid. It is normally present at around 1% of total fatty acids in your blood, but it is being recognized as a marker of excess carbohydrates in the diet. High intakes of simple carbohydrates, e.g., sugar, white flour, corn syrup, etc., cause the body to make fatty acids, one of which is palmitoleic acid. Again, the research in this field is immature and does not allow for firm target values to be set. (Note: if you are taking a palmitoleic acid supplement, the relationship between carbohydrate intake and blood levels of this fatty acid becomes complex and hard to interpret.)

Saturated Fatty Acids

There are six saturated fatty acids in the OmegaQuant Complete Report. As with the other classes described above, the vast majority of saturated fatty acids are from two fatty acids: palmitic and stearic acid. Together they make up ~98% of the saturated fatty acids in the blood, with palmitic making up two-thirds of the total. Foods rich in saturated fatty acids are solids at room temperature, such as butter, shortening and lard. However, eating foods high in saturated fat does not cause an increase in whole blood saturated fatty acid levels, but excess carbohydrate intake can. Like palmitoleic acid, palmitic acid is both consumed and made by the body, especially when carbohydrate intake is high, so it is difficult to interpret the meaning of palmitic acid blood levels. Stearic acid does not appear to have any important health implications, but higher palmitic acid levels have been linked to poorer overall health.

Trans Fatty Acids

Refer to your Trans Fat Index report for information relating to these fatty acids.

Ratios

Refer to your Omega Ratios report for information relating to these ratios.



PATIENT: XXXXXXXXXXXXXXXXXXX

TEST NUMBER: T-NL-XXXXX (XXXXXXXXXX)

GENDER: XYZ AGE: XX COLLECTED: XX/XX/XXXX

RECEIVED: XX/XX/XXXX

XX/XX/XXXX

TESTED:

PRACTITIONER:

XXXXXXXXXXX

TEST REF: TST-NL-XXXX

xxxxxxxxxxxxxxxx

TEST NAME: Omega-3 / VitD / HbA1c (BloodSpot)

Amount of EPA and DHA in Seafood and Supplements

Facilite Herring 1056 751 1807 Atlantic Herring 773 939 1712 Atlantic Salmon (wild) 349 1215 1564 Bluefin Tuna 309 970 1279 Atlantic Salmon (farmed)* 510 - 587 680 - 1238 1190 - 1825 Pink Salmon (wild) 456 688 - 1238 1094 Cobo Salmon (farmed) 347 740 1087 Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Salmon Wild 341 559 990 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Carbin (farmed) 198 335 733 Shark (raw) 267 444 711 Swordfish 117 383 648 Sea Bass 175 473 480 Fall Fish	Fish and Seafood (3 oz or 85 g)	EPA (mg)	DHA (mg)	EPA + DHA (mg)
Atlantic Salmon (wild) 349 1215 1564 Bluefin Tuna 309 970 1279 Atlantic Salmon (farmed)* 510 - 587 680 - 1238 1199 - 1825 Pink Salmon (wild) 456 638 1094 Coho Salmon (farmed) 347 740 1087 Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 599 900 Sardines (canned) 302 333 835 Coho Salmon (wild) 198 535 733 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 177 383 460 Flat Fish (Flounder/Sole) 207 196 433 Blue Crab 27 318 39	Pacific Herring	1056	751	1807
Bluefin Tuna 309 970 1279 Atlantic Salmon (farmed)* 510 - 587 680 - 1238 1190 - 1825 Pink Salmon (wild) 456 638 1094 Coho Salmon (farmed) 347 740 1087 Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bas 1175 473 648 Follock 77 383 460 Flat Fish (Flounder/Sole) 207 196 403 <t< td=""><td>Atlantic Herring</td><td>773</td><td>939</td><td>1712</td></t<>	Atlantic Herring	773	939	1712
Atlantic Salmon (farmed)* 510 - 587 680 - 1238 1094 Pink Salmon (wild) 456 638 1094 Coho Salmon (farmed) 347 740 1087 Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 981 Chum Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 175 473 460 Flat Fish (Flounder/Sole) 207 219 426 Blue crab 195 179 374 King Grab 18 193 341 King G	Atlantic Salmon (wild)	349	1215	1564
Pink Salmon (wild) 456 638 1094 Coho Salmon (farmed) 347 740 1087 Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Hallbut 77 318 395 Oysters (farmed) 251 100 351 King Crab 218	Bluefin Tuna	309	970	1279
Coho Salmon (farmed) 347 740 1087 Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 196 403 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 1	Atlantic Salmon (farmed)*	510 - 587	680 - 1238	1190 – 1825
Mackerel (canned) 369 677 1046 Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 196 403 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 251 100 351 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 33 245	Pink Salmon (wild)	456	638	1094
Sockeye Salmon (wild) 451 595 1046 Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Grab 18 193 341 Walleye 33 245 338 Ungeness Crab 239 96 335 Scallops 141 169 310 <td>Coho Salmon (farmed)</td> <td>347</td> <td>740</td> <td>1087</td>	Coho Salmon (farmed)	347	740	1087
Chum Salmon (canned) 402 597 999 Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 196 403 Blue Crab 207 196 403 Hallbut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 31 </td <td>Mackerel (canned)</td> <td>369</td> <td>677</td> <td>1046</td>	Mackerel (canned)	369	677	1046
Rainbow Trout (farmed) 284 697 981 Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 196 403 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Mixed Shrimp 145 122 267	Sockeye Salmon (wild)	451	595	1046
Coho Salmon (wild) 341 559 900 Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267	Chum Salmon (canned)	402	597	999
Sardines (canned) 402 433 835 Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 199 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85<	Rainbow Trout (farmed)	284	697	981
Albacore (or white) Tuna (canned) 198 535 733 Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85	Coho Salmon (wild)	341	559	900
Shark (raw) 267 444 711 Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109	Sardines (canned)	402	433	835
Swordfish 117 579 696 Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 318 460 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (wild)	Albacore (or white) Tuna (canned)	198	535	733
Sea Bass 175 473 648 Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 </td <td>Shark (raw)</td> <td>267</td> <td>444</td> <td>711</td>	Shark (raw)	267	444	711
Pollock 77 383 460 Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) </td <td>Swordfish</td> <td>117</td> <td>579</td> <td>696</td>	Swordfish	117	579	696
Flat Fish (Flounder/Sole) 207 219 426 Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Sea Bass	175	473	648
Blue Crab 207 196 403 Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Pollock	77	383	460
Halibut 77 318 395 Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Flat Fish (Flounder/Sole)	207	219	426
Oysters (farmed) 195 179 374 King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Blue Crab	207	196	403
King Crab 251 100 351 King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Halibut	77	318	395
King Mackerel 148 193 341 Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Oysters (farmed)	195	179	374
Walleye 93 245 338 Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	King Crab	251	100	351
Dungeness Crab 239 96 335 Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	King Mackerel	148	193	341
Scallops 141 169 310 Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Walleye	93	245	338
Skipjack Tuna 77 201 278 Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Dungeness Crab	239	96	335
Mixed Shrimp 145 122 267 Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Scallops	141	169	310
Clams 117 124 241 Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Skipjack Tuna	77	201	278
Yellowfin Tuna 40 197 237 Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Mixed Shrimp	145	122	267
Light Chunk Tuna 40 190 230 Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Clams	117	124	241
Catfish (wild) 85 116 201 Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Yellowfin Tuna	40	197	237
Catfish (farmed) 42 109 151 Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Light Chunk Tuna	40	190	230
Cod 3 131 134 Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Catfish (wild)	85	116	201
Mahi-Mahi (dolphin fish) 22 96 118 Tilapia 4 111 115	Catfish (farmed)	42	109	151
Tilapia 4 111 115	Cod	3	131	134
·	Mahi-Mahi (dolphin fish)	22	96	118
Orange Roughy 5 21 26	Tilapia	4	111	115
	Orange Roughy	5	21	26

Dietary Supplements – Amount (mg) per capsule or per teaspoon							
Standard Fish Oil Capsules	180	120	300				
Fish Oil Concentrates (many varieties)	100-400	100-400	300-700				
Cod Liver Oil (teaspoon)	300	500	800				
Krill Oil	100-300	50-150	150-450				

Table adapted from Harris et al. Current Atherosclerosis Reports 2008;10:503-509. Values based on USDA Nutrient Data Lab values and are for fish cooked with dry heat unless otherwise noted.

50-150

Nordic Laboratories Aps

Algal Oil

Nygade 6, 3.sal • 1164 Copenhagen K • Denmark Tlf. +45 33 75 10 00 UK Office:

11 Old Factory Buildings • Stonegate • E. Sussex TN5 7DU • UK Tel: +44 (0)1580 201 687

100-300

Page 7 of 7 www.nordic-labs.com info@nordic-labs.com

150-450

^{*}Farmed Salmon can have a range of EPA and DHA based on the fish feed. Sprague M, et al. Scientific Reports, 2016; 6:21892.