

CHOOSE FISH FROM SUSTAINABLE AQUACULTURE

Fish is a food of high nutritional value and its consumption is advised in every stage of life. It is a source of high-value proteins, vitamins, minerals and polyunsaturated fatty acids. It is recommended to consume at least 2 servings of fish per week, where one serving accounts for 120 - 170 g of clean fish meat. Regular fish consumption is associated with a lower incidence of obesity, cardiovascular diseases, some types of cancer, and better mental health and cognitive function.

Most consumers are skeptical of farmed fish. However, the current scientific consensus is that farmed and wild fish cannot be differentiated in terms of nutritional value and safety. Farmed fish has a constant chemical composition that can be influenced by feed. Also, fresh farmed fish is available to consumers all year round.

Compared to other methods of animal protein production, aquaculture has the least negative impact on the environment and is a sustainable way of production. Since fish farming takes place in controlled conditions, it is possible to maintain the highest standards of quality and safety.

AdriAquaNet project is the first-ever initiative for sustainable improvement of the quality of farmed fish and its marketing that resulted from the cooperation between Italy and Croatia. On the basis of the scientific results, the AdriAquaNet project team proposes sustainable farming of sea bass and sea bream of high nutritional value. New feed formulations, use of renewable energy sources and use of probiotics, natural compounds and vaccines in exchange for antibiotics are just some of the innovative methods applied in fish farming.



Enhancing Innovation and Sustainability in **Adriatic Aquaculture**



One serving (150 g) of farmed sea bass or sea bream

within the AdriAquaNet project contains on average:

	SEA BASS	% RI	SEA BREAM	% RI
Energy (kcal)	228	11	248	12
Energy (kJ)	952	11	1036	12
Proteins (g)	28.2	56	29.3	59
Fats (g)	12.7	18	14.5	21
Carbohydrates (g)	0.08	0	0.08	0
K (mg)	650	33	626	31
P (mg)	360	51	358	51
Na (mg)	80.1	-	91.8	-
Ca (mg)	72.2	9	54.6	7
Mg (mg)	53.1	14	57.6	15
Fe (mg)	1.2	9	1.4	10
Zn (mg)	2.0	20	1.8	18
Cu (mg)	0.02	2	0.03	3
Vitamin A (µg)	19.0	2	4.8	1
Vitamin E (mg)	3.0	25	2.5	21
EPA+DHA (mg)	405	162	390	156

RI = Reference intake for an average adult (2000 kcal); according to Regulation (EU) No 1169/2011, except EPA+DHA according to EFSA (European Food Safety Agency)



SELENIUM	IODINE
VITAMINS B	VITAMIN D

According to recommendations of the European Food Safety Authority (EFSA), a daily intake of 250 to 500 mg of omega-3 fatty acids, specifically eicosapentaenoic (EPA) and docosahexaenoic acid (DHA), has beneficial effects on health.



- Aquaculture is currently the fastest-growing food production industry in the world.
- More than half of the global fish production intended for human consumption comes from aquaculture.

Sea bream en papillote with vegetables



Ingredients (1 serving)

320 g sea bream, gutted 200 g zucchini

120 g cherry tomatoes

250 g potato, peeled

2 garlic cloves

2 sprigs of thyme

2 sprigs of rosemary

1 1/2 tablespoons olive oil

2 tablespoons lemon juice

salt, pepper

Directions:

Cut greaseproof baking paper to a size you can wrap the fish with. Slice the vegetables and boil potatoes until they are half done. In the middle of the baking paper, put the vegetables, season it, add garlic, rosemary and thyme and pour over a little olive oil. Place the sea bream on the prepared vegetables and cut its skin in several places, then season it inside and out. Put a sprig of rosemary and thyme in the gut, then pour olive oil and lemon juice over everything. Wrap the paper tightly in the shape of candy and place it in the oven at 180°C for half an hour.

One serving contains*:

Energy: 708 kcal \mid carbohydrates: 55 g \mid proteins: 42 g \mid fats: 36.1 g \mid saturated fatty acids: 6.3 g \mid monounsaturated fatty acids: 21.3 g \mid polyunsaturated fatty acids: 5.9 g \mid EPA+DHA: 416 mg \mid Potassium: 145 % \mid Phosphorus: 86 % \mid Calcium: 18 % \mid Magnesium: 47 % \mid Iron: 32 % \mid Zinc: 35 % \mid Copper: 31 % \mid Selenium: 88 % \mid Vitamin A: 37 % \mid Vitamin E: 39 % \mid Thiamin (B1): 131 % \mid Riboflavin (B2): 29 % \mid Niacin (B3): 97 % \mid Pantothenic acid (B5): 45 % \mid Vitamin B6: 96 % \mid Folate (B9): 88 % \mid Vitamin B12: 191 % \mid Vitamin C: 133 %

Spaghetti with sea bass in tomato sauce



Ingredients (4 servings)

400 g spaghetti

360 g sea bass fillets

280 g cherry tomatoes

400 g canned tomatoes

1 onion

3 garlic cloves

100 ml white wine

50 ml olive oil

parsley, salt

Directions:

Cut the fish fillets into cubes. Heat the olive oil in a pan over low heat and add the onion, garlic and parsley stalks. Season it and cook gently until the onion is soft. Pour white wine over and increase the heat a little. Let simmer for 2 minutes, then add the peeled tomatoes and cherry tomatoes and cook for another 10 minutes. Add diced fish and continue to cook for another 5 minutes. Mix previously cooked pasta and chopped parsley leaves with fish sauce and serve.

One serving contains*:

Energy: 659 kcal | carbohydrates: 78 g | proteins: 31.3 g | fats: 22.8 g | saturated fatty acids: 3.9 g | monounsaturated fatty acids: 12.8 g | polyunsaturated fatty acids: 3.1 g | EPA+DHA: 243 mg | Potassium: 56 % | Phosphorus: 67 % | Calcium: 13 % | Magnesium: 27 % | Iron: 28 % | Zinc: 29 % | Copper: 42 % | Selenium: 47 % | Vitamin A: 18 % | Vitamin E: 38 % | Thiamin (B1): 95 % | Riboflavin (B2): 21 % | Niacin (B3): 83 % | Pantothenic acid (B5): 20 % | Vitamin B6: 46 % | Folate (B9): 39 % | Vitamin B12: 108 % | Vitamin C: 37 %

Poached sea bass with vegetables



Ingredients (2 servings)

240 g sea bass fillets

240 g carrots

100 g leek

160 g zucchini

160 g tomatoes

½ onion

2 garlic cloves

2 sprigs of thyme

2 sprigs of rosemary 2 tablespoons olive oil

140 g cornmeal

salt

Directions:

Pour about two cups of liquid (white wine, vegetable or fish stock, water or a combination) into the pan and add sliced vegetables, herbs and a bit of olive oil. When the liquid boils, reduce the heat and simmer gently for 5 to 10 minutes. Season the sea bass fillets and place them in the liquid. Cover the pan and poach the fish for 6 to 8 minutes, until the fillets are cooked. Serve with prepared vegetables and polenta.

One serving contains*:

Energy: 640 kcal | carbohydrates: 69 g | proteins: 32.9 g | fats: 26.3 g | saturated fatty acids: 4.4 g | monounsaturated fatty acids: 13.8 g | polyunsaturated fatty acids: 4 g | EPA+DHA: 324 mg | Potassium: 75 % | Phosphorus: 68 % | Calcium: 17 % | Magnesium: 29 % | Iron: 26 % | Zinc: 28 % | Copper: 21 % | Selenium: 65 % | Vitamin A: 314 % | Vitamin E: 34 % | Thiamin (B1): 101 % | Riboflavin (B2): 26 % | Niacin (B3): 77 % | Pantothenic acid (B5): 26 % | Vitamin B6: 69 % | Folate (B9): 53 % | Vitamin B12: 144 % | Vitamin C: 61 %

Homemade fish soup and boiled sea bream



Ingredients (4 servings)

Fish soup

1.2 kg sea bream, gutted

140 g carrots

80 g tomato

50 g celery root

40 g parsley root

celery, parsley

3 garlic cloves

3 tablespoons olive oil

Boiled sea bream

pre-cooked sea bream 3 tablespoons olive oil

2 garlic cloves

parsley

Swiss chard and potatoes

1 kg Swiss chard

500 g potatoes, peeled

2 garlic cloves

1 tablespoon olive oil

Directions:

Put vegetables, salt, pepper and olive oil in cold water to boil. When the vegetables are half done, add the fish. Cook the fish for about 15-20 minutes until softened. When the fish is cooked, take it out, add pre-cooked rice to the soup and serve. Season the fish with a mixture of olive oil, garlic and parsley and serve it with Swiss chard and potatoes

One serving contains*:

Energy: 677 kcal | carbohydrates: 46 g | proteins: 38.4 g | fats: 37.8 g | saturated fatty acids: 6.3 g | monounsaturated fatty acids: 23.2 g | polyunsaturated fatty acids: 5.7 g | EPA+DHA: 390 mg | Potassium: 122 % | Phosphorus: 82 % | Calcium: 28 % | Magnesium: 80 % | Iron: 51 % | Zinc: 25 % | Copper: 18 % | Selenium: 85 % | Vitamin A: 332 % | Vitamin E: 33 % | Thiamin (B1): 98 % | Riboflavin (B2): 39 % | Niacin (B3): 95 % | Pantothenic acid (B5): 40 % | Vitamin B6: 60 % | Folate (B9): 235 % | Vitamin B12: 180 % | Vitamin C: 140 %

determined by Nutritics v5.53 software; % reference intake (RI) for an average adult (2000 kcal); according to Regulation (EU) No 1169/2011 Photography: David Skoko, Orada Adriatic Ltd, Shutterstock.com























