

SOLID FOOD
discover the mother of grains

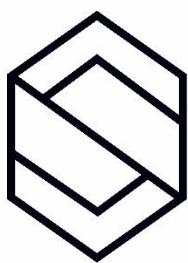
QUINOA & STAPLE FOODS

Nutritional value

Description (per 100g dry weight)	Quinoa	Rice	Potatoes	Maize	Wheat	Soybean	RDA
Description in 'FoodData Central' database	Quinoa, uncooked	Rice, white, long-grain, regular, raw, unenriched	Potatoes, flesh and skin, raw	Corn grain, yellow	Wheat, hard red winter	Soybeans, mature seeds, raw	Recommended Dietary Allowances
Macro-nutrient contents							
Energy (Kcal/100g)	368	365	77	365	327	446	2.000-2.500
Protein (g/100g)	14,12	7,13	2,05	9,42	12,61	36,49	50
Fat (g/100g)	6,07	0,66	0,09	4,74	1,54	19,94	44-77
Saturated fat	0,71	0,18	0,03	0,67	0,26	2,88	minimal
Mono-unsaturated fat	1,61	0,21	0,00	1,25	0,20	4,40	22-55
Carbohydrates	64,16	79,95	17,49	74,26	71,18	30,16	130
Dietary fibre	7,0	1,3	2,1	7,3	12,2	9,3	30
Vitamins							
A (IU)	14	0	2	214	9	22	5.000
B-1 (Thiamine) (mg)	0,36	0,07	0,08	0,39	0,38	0,87	1,2
B-2 (Riboflavine) (mg)	0,32	0,05	0,03	0,20	0,12	0,87	1,3
B-3 (Niacine) (mg)	1,52	1,60	1,06	3,63	5,46	1,62	16
B-6 (mg)	0,49	0,16	0,30	0,62	0,30	0,38	1,3
B-9 (Folate) (µg)	184	8	15	19	38	375	400
C (mg)	0,0	0,0	19,7	0,0	0,0	6,0	90
E (mg)	2,44	0,11	0,01	0,49	1,01	0,85	15
Minerals (mg/100g)							
Calcium	47	28	12	7	29	277	1.000
Iron	4,6	0,8	0,8	2,7	3,2	15,7	8
Magnesium	197	25	23	127	126	280	400
Manganese	2,033	1,088	0,153	0,485	3,985	2,517	2,3
Phosphorus	457	115	57	210	288	704	700
Potassium	563	115	425	287	363	1.797	4.700
Sodium	5	5	6	35	2	2	1.500
Zinc	3,1	1,1	0,3	2,2	2,7	4,9	11
Essential amino acids (g/100g)							
							g/70kg body
Histidine	0,407	0,168	0,035	0,287	0,285	1,097	0,7
Isoleucine	0,504	0,308	0,066	0,337	0,458	1,971	1,4
Leucine	0,840	0,589	0,098	1,155	0,854	3,309	2,73
Lysine	0,766	0,258	0,107	0,265	0,335	2,706	2,1
Methionine + Cystine	0,512	0,314	0,056	0,367	0,233	1,202	1,05
Phenylalanine + Tyrosine	0,860	0,619	0,129	0,846	0,979	3,661	1,75
Threonine	0,421	0,255	0,067	0,354	0,365	1,766	1,05
Tryptophan	0,167	0,083	0,021	0,067	0,160	0,591	0,28
Valine	0,594	0,435	0,103	0,477	0,556	2,029	1,82
Limiting amino acid	None	Lysine	Lysine	Lysine	Lysine	Meth+Cyst	
Other characteristics							
Protein quality (PDCAAS)	0,67	0,42	0,99	0,67	0,25 - 0,51	0,91	
Glutenfree	Yes	Yes	Yes	Yes	No	Yes	
Glycemic index	Low	Low	High	Medium	Medium	Low	

Quinoa is a rich source of protein, several vitamins (e.g. B2, B9 and E) and the dietary minerals magnesium, phosphorus and iron. Quinoa is gluten-free and has a low glycemic index. All essential amino acids are present, in an almost perfect balance.

Source: USDA Nutrient Database (FoodData Central) - retrieved Dec. 2020
<https://fdc.nal.usda.gov/index.html>



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QUINOA & ANCIENT GRAINS

Nutritional value

Description (per 100g dry weight)	Quinoa	Amaranth	Buckwheat	Millet	Oats	Spelt	RDA
Description in 'FoodData Central' database	Quinoa, uncooked	Amaranth grain, uncooked	Buckwheat	Millet, raw	Oats (incl. foods for USDA's...)	Spelt, uncooked	Recommended Dietary Allowances
Macro-nutrient contents							
Energy (Kcal/100g)	368	371	343	378	389	338	2.000-2.500
Protein (g/100g)	14,12	13,56	13,25	11,02	16,89	14,57	50
Fat (g/100g)	6,07	7,02	3,40	4,22	6,90	2,43	44-77
Saturated fat	0,71	1,46	0,74	0,72	1,22	0,41	minimal
Mono-unsaturated fat	1,61	1,69	1,04	0,77	2,18	0,45	22-55
Carbohydrates	64,16	65,25	71,50	72,85	66,27	70,19	130
Dietary fibre	7,0	6,7	10,0	8,5	10,6	10,7	30
Vitamins							
A (IU)	14	2	0	0	0	10	5.000
B-1 (Thiamine) (mg)	0,36	0,12	0,10	0,42	0,76	0,36	1,2
B-2 (Riboflavine) (mg)	0,32	0,20	0,43	0,29	0,14	0,11	1,3
B-3 (Niacine) (mg)	1,52	0,92	7,02	4,72	0,96	6,84	16
B-6 (mg)	0,49	0,59	0,21	0,38	0,12	0,23	1,3
B-9 (Folate) (µg)	184	82	30	85	56	45	400
C (mg)	0,0	4,2	0,0	0,0	0,0	0,0	90
E (mg)	2,44	1,19	0,00	0,05	0,00	0,79	15
Minerals (mg/100g)							
Calcium	47	159	18	8	54	27	1.000
Iron	4,6	7,6	2,2	3,0	4,7	4,4	8
Magnesium	197	248	231	114	177	136	400
Manganese	2,033	3,333	1,300	1,632	4,916	2,983	2,3
Phosphorus	457	557	347	285	523	401	700
Potassium	563	508	460	195	429	388	4.700
Sodium	5	4	1	5	2	8	1.500
Zinc	3,1	2,9	2,4	1,7	4,0	3,3	11
Essential amino acids (g/100g)							
Histidine	0,407	0,389	0,309	0,236	0,405	0,360	0,7
Isoleucine	0,504	0,582	0,498	0,465	0,694	0,552	1,4
Leucine	0,840	0,879	0,832	1,400	1,284	1,070	2,73
Lysine	0,766	0,747	0,672	0,212	0,701	0,409	2,1
Methionine + Cystine	0,512	0,417	0,401	0,433	0,720	0,588	1,05
Phenylalanine + Tyrosine	0,860	0,871	0,761	0,920	1,468	1,114	1,75
Threonine	0,421	0,558	0,506	0,353	0,575	0,443	1,05
Tryptophan	0,167	0,181	0,192	0,119	0,234	0,132	0,28
Valine	0,594	0,679	0,678	0,578	0,937	0,681	1,82
Other characteristics							
Protein quality (PDCAAS)	0,67				0,57		
Glutenfree	Yes	Yes	Yes	Yes	No	No	
Glycemic index	Low	High	Low/Medium	Low	Low	Low	

Source: USDA Nutrient Database (FoodData Central) - retrieved Dec. 2020

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