

## Overview on Dietary Reference Values for the EU population as derived by the EFSA Panel on Dietetic Products, Nutrition and Allergies (NDA)

The term Dietary Reference Value (DRV) is an umbrella term for the complete set of nutrient reference values which include, among others, concepts like the Population Reference Intakes, the Average Requirements, Adequate Intakes and Reference Intake ranges for macronutrients (EFSA NDA Panel, 2010), which indicate the amount of an individual nutrient that people need for good health depending on their age and gender.

In its opinions, EFSA used four types of DRVs:

- The **Population Reference Intake (PRI)**, which is the level of (nutrient) intake that is adequate for virtually all people in a population group. On the assumption that the individual requirements for a nutrient are normally distributed within a population and the inter-individual variation is known, the PRI is calculated on the basis of the AR plus twice its standard deviation (SD). This will meet the requirements of 97.5% of the individuals in the population.
- The **Average Requirement (AR)**, which is the level of (nutrient) intake estimated to satisfy the physiological requirement or metabolic demand, as defined by the specified criterion for adequacy for that nutrient, in half of the people in a population group, given a normal distribution of requirement.
- The **Adequate Intake (AI)**, which is the value estimated when a PRI cannot be established because an AR cannot be determined. An Adequate Intake is the average observed or experimentally determined approximations or estimates of nutrient intake by a population group (or groups) of apparently healthy people that is assumed to be adequate. The practical implication of an AI is similar to that of a PRI, i.e. describe the level of intake that is considered adequate for health reasons. The terminological distinction relates to the different way in which these values are derived and to the resultant difference in the “firmness” of the value.
- The **Reference Intake range (RI)**, which is the intake range for macronutrients, expressed as % of the energy intake. These apply to ranges of intakes that are adequate for maintaining health and associated with a low risk of selected chronic diseases.

The work done by EFSA in this area was based on a request from the European Commission, which asked EFSA to update previous European advice (SCF, 1993), taking into account new scientific evidence and recent recommendations issued at national and international level.

This document provides an overview about the outcome of EFSA’s scientific deliberations. The detailed reasoning for establishing individual values can be found in the related opinions of the NDA Panel. Links to the respective opinions are included in Table 7 of this document.

**Table 1:** Summary of Average Requirements (AR) for **energy** and Population Reference Intakes (PRIs) for **protein**

Age <sup>(b)</sup>	AR for Energy (MJ <sup>(a)</sup> /d)										PRI for Protein (g/kg bw <sup>(e)</sup> per day)		
			at PAL=1.4 <sup>(c)</sup>		at PAL=1.6 <sup>(c)</sup>		at PAL=1.8 <sup>(c)</sup>		at PAL=2.0 <sup>(c)</sup>		M	F	
	M	F	M	F	M	F	M	F	M	F			
7 mo	2.7	2.4											
8 mo	2.8	2.5											
9 mo	2.9	2.6											
10 mo	3.0	2.7											
11 mo	3.1	2.8											
1 y			3.3	3.0									
2 y			4.3	4.0									
3 y			4.9	4.6									
4 y			5.3	4.9	6.0	5.6	6.8	6.3					
5 y			5.6	5.2	6.4	5.9	7.2	6.7					
6 y			5.9	5.5	6.7	6.3	7.6	7.1					
7 y			6.3	5.8	7.2	6.7	8.1	7.5					
8 y			6.7	6.2	7.6	7.1	8.6	7.9					
9 y			7.0	6.6	8.1	7.5	9.1	8.4					
10 y					8.1	7.6	9.1	8.6	10.1	9.5			
11 y					8.5	8.0	9.6	9.0	10.7	10.0			
12 y					9.1	8.4	10.2	9.4	11.4	10.5			
13 y					9.8	8.8	11.0	9.9	12.2	11.0			
14 y					10.5	9.1	11.8	10.2	13.1	11.4			
15 y					11.3	9.3	12.7	10.5	14.1	11.7			
16 y					11.9	9.5	13.4	10.6	14.9	11.8			
17 y					12.3	9.5	13.8	10.7	15.4	11.9			
18-29 y			9.8	7.9	11.2	9.0	12.6	10.1	14.0	11.2			
30-39 y			9.5	7.6	10.8	8.7	12.2	9.8	13.5	10.8			
40-49 y			9.3	7.5	10.7	8.6	12.0	9.7	13.4	10.7			
50-59 y			9.2	7.5	10.5	8.5	11.9	9.6	13.2	10.7			
60-69 y			8.4	6.8	9.6	7.8	10.9	8.8	12.1	9.7			
70-79 y			8.3	6.8	9.5	7.7	10.7	8.7	11.9	9.6			
<b>Pregnancy</b>													
1 <sup>st</sup> trimester												+ 0.29 <sup>(d)</sup>	
2 <sup>nd</sup> trimester												+ 1.1 <sup>(d)</sup>	
3 <sup>rd</sup> trimester												+ 2.1 <sup>(d)</sup>	
<b>Lactation</b>													
0-6 mo <i>post partum</i>												+ 2.1 <sup>(d)</sup>	

d, day; F, female; M, male; mo, months; PAL, physical activity level; y, years

<sup>(a)</sup> 1 MJ = 238.83 kcal

<sup>(b)</sup> ARs for energy are calculated by multiplying estimates of resting energy expenditure (REE), derived from predictive equations, with PAL values. For estimating REE in adults, anthropometric data from representative national surveys in EU Member States were used. ARs for energy were not calculated for adults ≥ 80 years because of a lack of anthropometric data from EU countries for this age group.

<sup>(c)</sup> PAL values of 1.4, 1.6, 1.8 and 2.0 reflect low active (sedentary), moderately active, active and very active lifestyles (EFSA NDA Panel, 2013).

<sup>(d)</sup> in addition to the AR for energy of non-pregnant women

Age	PRI for Protein (g/kg bw <sup>(e)</sup> per day)	
	M	F
0.5 y	1.31	
1 y	1.14	
1.5 y	1.03	
2 y	0.97	
3 y	0.90	
4 y	0.86	
5 y	0.85	
6 y	0.89	
7 y	0.91	
8 y	0.92	
9 y	0.92	
10 y	0.91	
11 y	0.91	0.90
12 y	0.90	0.89
13 y	0.90	0.88
14 y	0.89	0.87
15 y	0.88	0.85
16 y	0.87	0.84
17 y	0.86	0.83
18-59 y	0.83	
≥ 60 y	0.83	
<b>Pregnancy</b>		
1 <sup>st</sup> trimester	+1 g <sup>(f)</sup>	
2 <sup>nd</sup> trimester	+9 g <sup>(f)</sup>	
3 <sup>rd</sup> trimester	+28 g <sup>(f)</sup>	
<b>Lactation</b>		
0-6 mo <i>post partum</i>	+19 g <sup>(f)</sup>	
>6 mo <i>post partum</i>	+13 g <sup>(f)</sup>	

bw, body weight; F, female; M, male; y, years

<sup>(e)</sup> to be multiplied by reference body weights to calculate values in g/day

<sup>(f)</sup> in addition to the PRI for protein of non-pregnant women

**Table 2:** Summary of Reference Intake Ranges (RI) for **total fat** and **carbohydrates** and Adequate Intakes (AIs) for **fatty acids, dietary fibre** and **water**

Age group (years)	Total fat (E%) <sup>(a)</sup>	SFA	LA (E%) <sup>(b)</sup>	ALA (E%) <sup>(b)</sup>	EPA+DHA (mg/d) <sup>(b)</sup>	DHA (mg/d) <sup>(b)</sup>	TFA	Age group (years)	Total carbohydrates (E%) <sup>(a)</sup>	Dietary fibre (g/d) <sup>(b)</sup>	Age group (years)	Water (L/d) <sup>(b), (c)</sup>	
												M	F
7-11 mo <sup>(d)</sup>	40 <sup>(b)</sup>	ALAP	4	0.5		100	ALAP				6-12 mo	0.8-1.0	
1	35-40	ALAP	4	0.5		100	ALAP	1-3	45-60	10	1	1.1-1.2	
2-3	35-40	ALAP	4	0.5	250	ALAP	2-3				1.3		
4-17	20-35	ALAP	4	0.5	250			4-6	45-60	14	4-8	1.6	
								7-10	45-60	16	9-13	2.1	1.9
								11-14	45-60	19	14-17	2.5	2.0
								15-17	45-60	21			
≥ 18	20-35	ALAP	4	0.5	250		ALAP	≥ 18	45-60	25	≥ 18	2.5	2.0
<b>Pregnancy</b>													
	20-35	ALAP	4	0.5	250	+100-200 <sup>(e)</sup>	ALAP						2.3
<b>Lactation</b>													
	20-35	ALAP	4	0.5	250	+100-200 <sup>(e)</sup>	ALAP						2.7

ALA;  $\alpha$ -linolenic acid; ALAP, as low as possible; d, day; DHA, docosahexaenoic acid; E% percentage of energy intake; EPA, eicosapentaenoic acid; F, female; L, liter; LA, linoleic acid; M, male;

mo, months, SFA, saturated fatty acids; TFA, trans-fatty acids

<sup>(a)</sup> RI

<sup>(b)</sup> AI

<sup>(c)</sup> includes water from beverages of all kind, including drinking and mineral water, and from food moisture

<sup>(d)</sup> i.e. the second half of the first year of life (from the beginning of the 7<sup>th</sup> month to the 1<sup>st</sup> birthday)

<sup>(e)</sup> in addition to combined intakes of EPA and DHA of 250 mg/day

**Table 3:** Population Reference Intakes (PRIs) and Adequate Intakes (AIs) for **minerals**<sup>1,2</sup> - **MALES**

Age group (years)	Calcium (mg/d)	Age group (years)	Fluoride (mg/d)	Iodine (µg/d)	Manganese (mg/d)	Molybdenum (µg/d)	Phosphorus (mg/d)	Potassium (mg/d)	Selenium (µg/d)	Age group (years)	Iron (mg/d)	Age group (years)	Copper (mg/d)	Magnesium (mg/d)	Age group (years)	Zinc (mg/d)	
																LPI (mg/d)	
7–11 mo <sup>(a)</sup>	280	7–11 mo <sup>(a)</sup>	0.4	70	0.02–0.5 <sup>(b)</sup>	10	160	750	15	7–11 mo <sup>(a)</sup>	<b>11</b>	7–11 mo <sup>(a)</sup>	0.4	80	7–11 mo <sup>(a)</sup>	<sup>(c)</sup>	<b>2.9</b>
1–3	<b>450</b>	1–3	0.6	90	0.5	15	250	800	15	1–6	<b>7</b>	1–2	0.7	170	1–3	<sup>(c)</sup>	<b>4.3</b>
4–10	<b>800</b>	4–6	1.0	90	1.0	20	440	1,100	20			3–9	1.0	230	4–6	<sup>(c)</sup>	<b>5.5</b>
11–17	<b>1,150</b>	7–10	1.5	90	1.5	30	440	1,800	35	7–11	<b>11</b>	10–17	1.3	300	7–10	<sup>(c)</sup>	<b>7.4</b>
		11–14	2.2	120	2.0	45	640	2,700	55						11–14	<sup>(c)</sup>	<b>10.7</b>
		15–17	3.2	130	3.0	65	640	3,500	70						12–17	<b>11</b>	15–17
18–24	<b>1,000</b>	≥ 18	3.4	150	3.0	65	550	3,500	70	≥ 18	<b>11</b>	≥ 18	1.6	350	≥ 18	300	<b>9.4</b>
≥ 25	<b>950</b>														600	<b>11.7</b>	
																900	<b>14.0</b>
																1,200	<b>16.3</b>

d, day; LPI, level of phytate intake; mo, months

PRIs are presented **in bold type** and AIs in ordinary type

<sup>(a)</sup> i.e. the second half of the first year of life (from the beginning of the 7<sup>th</sup> month to the 1<sup>st</sup> birthday)

<sup>(b)</sup> In view of the wide range of manganese intakes that appear to be adequate, a range is set for the AI of this age group

<sup>(c)</sup> The fractional absorption of zinc considered in setting PRIs for children was based on data from mixed diets expected to contain variable quantities of phytate; therefore, no adjustment for phytate intake has been made

<sup>1</sup> For chromium, setting an AI or a PRI was considered not appropriate

<sup>2</sup> The evaluation for sodium and chloride is ongoing

**Table 4:** Population Reference Intakes (PRIs) and Adequate Intakes (AIs) for minerals<sup>3,4</sup> - FEMALES

Age group (years)	Calcium (mg/d)	Age group (years)	Fluoride (mg/d)	Iodine (µg/d)	Manganese (mg/d)	Molybdenum (µg/d)	Phosphorus (mg/d)	Potassium (mg/d)	Selenium (µg/d)	Age group (years)	Iron (mg/d)	Age group (years)	Copper (mg/d)	Magnesium (mg/d)	Age group (years)	Zinc (mg/d)	
																LPI (mg/d)	
7–11 mo <sup>(a)</sup>	<b>280</b>	7–11 mo <sup>(a)</sup>	0.4	70	0.02–0.5 <sup>(b)</sup>	10	160	750	15	7–11 mo <sup>(a)</sup>	<b>11</b>	7–11 mo <sup>(a)</sup>	0.4	80	7–11 mo <sup>(a)</sup>	(c)	<b>2.9</b>
1–3	<b>450</b>	1–3	0.6	90	0.5	15	250	800	15	1–6	<b>7</b>	1–2	0.7	170	1–3	(c)	<b>4.3</b>
4–10	<b>800</b>	4–6	0.9	90	1.0	20	440	1,100	20			3–9	1.0	230	4–6	(c)	<b>5.5</b>
		7–10	1.4	90	1.5	30	440	1,800	35	7–11	<b>11</b>	10–17	1.1	250	7–10	(c)	<b>7.4</b>
11–17	<b>1,150</b>	11–14	2.3	120	2.0	45	640	2,700	55						11–14	(c)	<b>10.7</b>
		15–17	2.8	130	3.0	65	640	3,500	70	12–17	<b>13</b>	≥ 18	1.3	300	15–17	(c)	<b>11.9</b>
18–24	<b>1,000</b>	≥ 18	2.9	150	3.0	65	550	3,500	70	≥ 18					≥ 18	1.3	300
≥ 25	<b>950</b>									Premenopausal	<b>16<sup>(d)</sup></b>	600	<b>9.3</b>				
										Postmenopausal	<b>11</b>	900	<b>11.0</b>				
												1,200	<b>12.7</b>				
<b>Pregnancy</b>																	
18–24	<b>1000</b>		2.9	200	3.0	65	550	3,500	70		<b>16<sup>(d)</sup></b>		1.5	300			<b>+1.6<sup>(e)</sup></b>
≥ 25	<b>950</b>																
<b>Lactation</b>																	
18–24	<b>1000</b>		2.9	200	3.0	65	550	4,000	85		<b>16<sup>(d)</sup></b>		1.5	300			<b>+2.9<sup>(e)</sup></b>
≥ 25	<b>950</b>																

d, day; LPI, level of phytate intake; mo, months

 PRIs are presented in **bold type** and AIs in ordinary type

<sup>(a)</sup> i.e. the second half of the first year of life (from the beginning of the 7<sup>th</sup> month to the 1<sup>st</sup> birthday)

<sup>(b)</sup> In view of the wide range of manganese intakes that appear to be adequate, a range is set for the AI of this age group

<sup>(c)</sup> The fractional absorption of zinc considered in setting PRIs for children was based on data from mixed diets expected to contain variable quantities of phytate; therefore, no adjustment for phytate intake has been made

<sup>3</sup> For chromium, setting an AI or a PRI was considered not appropriate

<sup>4</sup> The evaluation for sodium and chloride is ongoing

- (d) The PRI covers the requirement of approximately 95 % of premenopausal women
- (e) In addition to the PRIs for non-pregnant, non-lactating women

**Table 5:** Population Reference Intakes (PRIs) and Adequate Intakes (AIs) for **vitamins - MALES**

Age group (years)	$\alpha$ -Tocopherol (mg/d)	Age group (years)	Biotin ( $\mu$ g/d)	Choline (mg/d)	Cobalamin ( $\mu$ g/d)	Folate ( $\mu$ g DFE/d) <sup>(a)</sup>	Niacin (mg NE/MJ) <sup>(b)</sup>	Pantothenic acid (mg/d)	Riboflavin (mg/d)	Thiamin (mg/MJ)	Vitamin A ( $\mu$ g RE/d) <sup>(c)</sup>	Vitamin B6 (mg/d)	Vitamin C (mg/d)	Vitamin D ( $\mu$ g/d)	Vitamin K ( $\mu$ g/d) <sup>(f)</sup>
7–11 mo <sup>(d)</sup>	5	7–11 mo <sup>(d)</sup>	6	160	1.5	80	<b>1.6</b>	3	0.4	<b>0.1</b>	<b>250</b>	0.3	<b>20</b>	10	10
1–2	6	1–3	20	140	1.5	<b>120</b>	<b>1.6</b>	4	<b>0.6</b>	<b>0.1</b>	<b>250</b>	<b>0.6</b>	<b>20</b>	15 <sup>(e)</sup>	12
3–9	9	4–6	25	170	1.5	<b>140</b>	<b>1.6</b>	4	<b>0.7</b>	<b>0.1</b>	<b>300</b>	<b>0.7</b>	<b>30</b>	15 <sup>(e)</sup>	20
		7–10	25	250	2.5	<b>200</b>	<b>1.6</b>	4	<b>1.0</b>	<b>0.1</b>	<b>400</b>	<b>1.0</b>	<b>45</b>	15 <sup>(e)</sup>	30
10–17	13	11–14	35	340	3.5	<b>270</b>	<b>1.6</b>	5	<b>1.4</b>	<b>0.1</b>	<b>600</b>	<b>1.4</b>	<b>70</b>	15 <sup>(e)</sup>	45
		15–17	35	400	4.0	<b>330</b>	<b>1.6</b>	5	<b>1.6</b>	<b>0.1</b>	<b>750</b>	<b>1.7</b>	<b>100</b>	15 <sup>(e)</sup>	65
$\geq 18$	13	$\geq 18$	40	400	4.0	<b>330</b>	<b>1.6</b>	5	<b>1.6</b>	<b>0.1</b>	<b>750</b>	<b>1.7</b>	<b>110</b>	15 <sup>(e)</sup>	70

d, day; mo, months

PRIs are presented in **bold type** and AIs in ordinary type

<sup>(a)</sup> DFE: dietary folate equivalents. For combined intakes of food folate and folic acid, DFEs can be computed as follows:  $\mu$ g DFE =  $\mu$ g food folate + (1.7 x  $\mu$ g folic acid)

<sup>(b)</sup> NE: niacin equivalent (1 mg niacin = 1 niacin equivalent = 60 mg dietary tryptophan)

<sup>(c)</sup> RE: retinol equivalent, 1  $\mu$ g RE equals 1  $\mu$ g of retinol, 6  $\mu$ g of  $\beta$ -carotene and 12  $\mu$ g of other provitamin A carotenoids

<sup>(d)</sup> i.e. the second half of the first year of life (from the beginning of the 7<sup>th</sup> month to the 1<sup>st</sup> birthday)

<sup>(e)</sup> Under conditions of assumed minimal cutaneous vitamin D synthesis. In the presence of endogenous cutaneous vitamin D synthesis, the requirement for dietary vitamin D is lower or may be even zero

<sup>(f)</sup> based on phylloquinone only

**Table 6:** Population Reference Intakes (PRIs) and Adequate Intakes (AIs) for **vitamins – FEMALES**

Age group (years)	$\alpha$ -Tocopherol (mg/d)	Age group (years)	Biotin ( $\mu$ g/d)	Choline (mg/d)	Cobalamin ( $\mu$ g/d)	Folate ( $\mu$ g DFE/d) <sup>(a)</sup>	Niacin (mg NE/MJ) <sup>(b)</sup>	Pantothenic acid (mg/d)	Riboflavin (mg/d)	Thiamin (mg/MJ)	Vitamin A ( $\mu$ g RE/d) <sup>(c)</sup>	Vitamin B6 (mg/d)	Vitamin C (mg/d)	Vitamin D ( $\mu$ g/d)	Vitamin K ( $\mu$ g/d) <sup>(f)</sup>
7–11 mo <sup>(d)</sup>	5	7–11 mo <sup>(d)</sup>	6	160	1.5	80	<b>1.6</b>	3	0.4	<b>0.1</b>	<b>250</b>	0.3	<b>20</b>	10	10
1–2	6	1–3	20	140	1.5	<b>120</b>	<b>1.6</b>	4	<b>0.6</b>	<b>0.1</b>	<b>250</b>	<b>0.6</b>	<b>20</b>	15 <sup>(e)</sup>	12
3–9	9	4–6	25	170	1.5	<b>140</b>	<b>1.6</b>	4	<b>0.7</b>	<b>0.1</b>	<b>300</b>	<b>0.7</b>	<b>30</b>	15 <sup>(e)</sup>	20
		7–10	25	250	2.5	<b>200</b>	<b>1.6</b>	4	<b>1.0</b>	<b>0.1</b>	<b>400</b>	<b>1.0</b>	<b>45</b>	15 <sup>(e)</sup>	30
10–17	11	11–14	35	340	3.5	<b>270</b>	<b>1.6</b>	5	<b>1.4</b>	<b>0.1</b>	<b>600</b>	<b>1.4</b>	<b>70</b>	15 <sup>(e)</sup>	45
		15–17	35	400	4.0	<b>330</b>	<b>1.6</b>	5	<b>1.6</b>	<b>0.1</b>	<b>650</b>	<b>1.6</b>	<b>90</b>	15 <sup>(e)</sup>	65
$\geq 18$	11	$\geq 18$	40	400	4.0	<b>330</b>	<b>1.6</b>	5	<b>1.6</b>	<b>0.1</b>	<b>650</b>	<b>1.6</b>	<b>95</b>	15 <sup>(e)</sup>	70
<b>Pregnancy</b>															
	11		40	480	4.5	600	<b>1.6</b>	5	<b>1.9</b>	<b>0.1</b>	<b>700</b>	<b>1.8</b>	<b>105</b>	15 <sup>(e)</sup>	70
<b>Lactation</b>															
	11		45	520	5.0	<b>500</b>	<b>1.6</b>	7	<b>2.0</b>	<b>0.1</b>	<b>1,300</b>	<b>1.7</b>	<b>155</b>	15 <sup>(e)</sup>	70

d, day; mo, months

PRIs are presented in **bold type** and AIs in ordinary type

<sup>(a)</sup> DFE: dietary folate equivalents. For combined intakes of food folate and folic acid, DFEs can be computed as follows:  $\mu$ g DFE =  $\mu$ g food folate + (1.7 x  $\mu$ g folic acid)

<sup>(b)</sup> NE: niacin equivalent (1 mg niacin = 1 niacin equivalent = 60 mg dietary tryptophan)

<sup>(c)</sup> RE: retinol equivalent, 1  $\mu$ g RE equals 1  $\mu$ g of retinol, 6  $\mu$ g of  $\beta$ -carotene and 12  $\mu$ g of other provitamin A carotenoids

<sup>(d)</sup> i.e. the second half of the first year of life (from the beginning of the 7<sup>th</sup> month to the 1<sup>st</sup> birthday)

<sup>(e)</sup> Under conditions of assumed minimal cutaneous vitamin D synthesis. In the presence of endogenous cutaneous vitamin D synthesis, the requirement for dietary vitamin D is lower or may be even zero

<sup>(f)</sup> based on phylloquinone only



**Table 7:** Links to Scientific Opinions on dietary reference values

<b>General principles</b>	<b>Energy, macronutrients and water</b>
<a href="http://www.efsa.europa.eu/en/efsajournal/pub/1458">http://www.efsa.europa.eu/en/efsajournal/pub/1458</a>	Energy: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3005">http://www.efsa.europa.eu/en/efsajournal/pub/3005</a>
	Fats: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/1461">http://www.efsa.europa.eu/en/efsajournal/pub/1461</a>
	Carbohydrates and dietary fibre: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/1462">http://www.efsa.europa.eu/en/efsajournal/pub/1462</a>
	Protein: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/2557">http://www.efsa.europa.eu/en/efsajournal/pub/2557</a>
	Water: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/1458">http://www.efsa.europa.eu/en/efsajournal/pub/1458</a>
<b>Vitamins</b>	<b>Minerals</b>
Alpha-tocopherol: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4149.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4149.htm</a>	Calcium: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4101.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4101.htm</a>
Choline: <a href="https://www.efsa.europa.eu/en/efsajournal/pub/4484.htm">https://www.efsa.europa.eu/en/efsajournal/pub/4484.htm</a>	Chromium: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3845.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3845.htm</a>
Cobalamin: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4150.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4150.htm</a>	Copper: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4253">http://www.efsa.europa.eu/en/efsajournal/pub/4253</a>
Biotin: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3580.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3580.htm</a>	Fluoride: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3332.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3332.htm</a>
Folate: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3893.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3893.htm</a>	Iodine: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3660.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3660.htm</a>
Niacin: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3759.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3759.htm</a>	Iron: <a href="http://www.efsa.europa.eu/it/efsajournal/pub/4254">http://www.efsa.europa.eu/it/efsajournal/pub/4254</a>
Pantothenic acid: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3581.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3581.htm</a>	Magnesium: <a href="http://www.efsa.europa.eu/it/efsajournal/pub/4186.htm">http://www.efsa.europa.eu/it/efsajournal/pub/4186.htm</a>
Thiamin: <a href="https://www.efsa.europa.eu/en/efsajournal/pub/4653.htm">https://www.efsa.europa.eu/en/efsajournal/pub/4653.htm</a>	Manganese: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3419.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3419.htm</a>
Riboflavin: <a href="https://www.efsa.europa.eu/en/efsajournal/pub/4919">https://www.efsa.europa.eu/en/efsajournal/pub/4919</a>	Molybdenum: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3333.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3333.htm</a>
Vitamin A: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4028.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4028.htm</a>	Phosphorus: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4185.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4185.htm</a>
Vitamin B6: <a href="https://www.efsa.europa.eu/en/efsajournal/pub/4485.htm">https://www.efsa.europa.eu/en/efsajournal/pub/4485.htm</a>	Potassium: <a href="https://www.efsa.europa.eu/en/efsajournal/pub/4592.htm">https://www.efsa.europa.eu/en/efsajournal/pub/4592.htm</a>
Vitamin C: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3418.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3418.htm</a>	Selenium: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3846.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3846.htm</a>
Vitamin D: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4547.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4547.htm</a>	Zinc: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/3844.htm">http://www.efsa.europa.eu/en/efsajournal/pub/3844.htm</a>
Vitamin K: <a href="http://www.efsa.europa.eu/en/efsajournal/pub/4780.htm">http://www.efsa.europa.eu/en/efsajournal/pub/4780.htm</a>	

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