

Supplementary data related to the article

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Deep learning algorithm for dessert recognition and nutritional evaluation

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Tab. S1. Detailed nutritional information per reference size (100 g) of desserts.

Component	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	r	s	t	u	v	y	z
		Blackberry cheesecake	Blue magic cheesecake	Brownie	Cherry chocolate tart	Chia pudding	Cinnamon roll	Croissant	Dark chocolate cookie	Fruit tart	Ganache tart	Gluten free bagels	Granola bar	Huckleberry cheesecake	Ketogenic aronia cookie	Ketogenic cheesecake	Lemon matcha cheesecake	Mascarpone tart	Naked sponge cake	Oatmeal vegan cookie	Peanut butter energy ball	Snickers	Spanish cake	White chocolate cookie
Energy	[kcal] [kJ]	264.1 1 104.9	264.1 1 104.9	535.0 2 238.4	250.3 1 047.3	63.7 266.5	298.0 1 246.9	353.7 1 480.0	451.6 1 889.3	250.3 1 047.3	547.4 2 290.5	229.9 962.0	492.0 2 058.3	430.7 1 802.0	446.4 1 867.8	229.9 961.9	342.7 1 433.7	250.3 1 047.3	338.9 1 417.9	461.4 1 930.4	469.2 1 963.2	381.1 1 594.6	257.7 1 078.2	498.0 2 083.7
Carbohydrates	[g]	11.1	11.1	38.0	17.5	8.3	24.4	52.4	51.1	17.5	22.7	37.7	32.8	18.6	12.5	2.7	13.3	17.5	23.2	35.0	21.5	36.6	4.4	46.4
Protein	[g]	6.8	6.8	15.4	6.6	1.8	5.2	10.6	7.5	6.6	9.7	9.2	10.0	11.6	13.1	9.2	10.1	6.6	4.2	12.4	18.0	11.7	8.1	5.7
Fat	[g]	21.5	21.5	35.4	15.4	2.7	20.1	10.9	24.2	15.4	46.9	4.4	35.9	34.7	39.5	20.2	27.8	15.4	25.7	30.4	34.9	20.7	23.2	32.4
Saturated fatty acids	[g]	10.5	10.5	10.1	7.5	0.4	12.2	1.5	14.8	7.5	18.6	0.9	17.1	9.1	10.9	11.8	9.6	7.5	15.8	13.6	5.4	6.3	13.7	20.1
Monounsaturated fatty acids	[g]	7.6	7.6	16.9	5.5	0.2	5.8	5.4	7.0	5.5	7.2	1.4	13.7	14.2	20.4	6.2	13.4	5.5	8.0	7.5	17.6	8.6	7.2	9.6
Glucose	[g]	0.7	0.7	13.8	0.2	1.2	0.4	0.1	0.1	0.2	6.1	0.1	0.5	4.5	1.2	0.2	0.4	0.2	0.5	0.7	0.6	14.2	0.4	0.0
Niacin	[mg]	0.5	0.5	1.5	0.4	0.9	0.8	5.0	1.8	0.4	1.6	3.7	0.9	1.5	1.7	0.1	1.0	0.4	0.4	3.5	7.1	5.9	0.1	0.2
Vitamin B5	[mg]	0.5	0.5	1.4	0.7	0.1	0.7	1.2	0.6	0.7	0.2	0.9	0.6	0.2	0.4	0.7	0.1	0.7	0.1	0.7	0.7	1.2	0.6	0.5
Vitamin E (equivalent)	[mg]	1.7	1.7	6.4	1.6	0.2	0.9	5.0	1.4	1.6	9.7	0.7	2.9	8.2	6.8	0.8	3.8	1.6	1.2	4.0	6.0	3.4	0.9	0.8
Vitamin E	[mg]	1.7	1.7	3.0	1.2	0.3	0.8	4.3	1.0	1.2	1.2	0.7	2.9	3.7	6.7	0.6	1.5	1.2	0.6	2.2	4.6	3.3	0.7	0.7
Niacin (equivalent)	[mg]	1.7	1.7	3.6	1.7	0.4	1.5	6.8	3.0	1.7	3.9	5.3	2.9	4.1	3.2	1.3	3.4	1.7	1.4	6.1	10.7	8.5	1.2	1.1
Polyunsaturated fatty acids	[g]	1.6	1.6	6.6	1.2	1.9	0.8	2.5	1.0	1.2	20.0	1.6	3.1	10.1	6.0	5.7	4.0	1.2	0.7	7.8	10.3	5.0	0.9	0.9
Cholesterol	[mg]	132.1	132.1	268.9	176.8	0.0	143.4	0.0	81.1	176.8	0.0	13.9	46.8	0.0	73.6	144.0	0.0	176.8	49.7	0.0	0.0	0.1	137.0	107.9
Vitamin B12	[µg]	0.4	0.4	0.8	0.5	0.0	0.3	0.0	0.2	0.5	0.1	0.1	0.2	0.0	0.1	0.5	0.0	0.5	0.3	0.0	0.0	0.0	0.5	0.4
Vitamin K	[µg]	2.1	2.1	12.0	2.0	2.0	2.2	3.1	2.5	2.0	2.6	1.3	18.1	2.5	1.1	1.6	2.9	2.0	3.1	24.5	14.8	3.1	0.8	2.4
Oligosaccharide (undigestible)	[g]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oligosaccharide (digestible)	[g]	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0
Biotin	[µg]	6.3	6.3	21.7	9.2	1.7	10.5	10.0	5.0	9.2	15.7	8.2	6.3	8.9	2.7	8.4	5.8	9.2	2.2	14.9	15.2	13.3	7.8	4.1
Copper	[mg]	0.1	0.1	1.3	0.3	0.3	0.2	0.7	0.6	0.3	1.1	0.4	0.4	1.0	0.5	0.0	1.0	0.3	0.6	0.4	0.5	0.5	0.0	0.2
Vitamin D	[µg]	0.8	0.8	1.3	0.9	0.0	0.7	0.0	0.4	0.9	0.0	0.1	0.2	0.0	0.4	0.7	0.0	0.9	0.5	0.0	0.2	0.0	0.8	0.5
Vitamin B2	[mg]	0.1	0.1	0.4	0.2	0.0	0.2	0.2	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
Magnesium	[mg]	24.6	24.6	165.6	45.0	45.5	14.3	114.4	88.3	45.0	113.8	73.5	85.6	131.0	112.7	10.2	124.6	45.0	78.3	96.3	134.2	98.3	8.4	26.5
Zinc	[mg]	0.8	0.8	2.8	1.2	0.4	0.7	3.2	1.9	1.2	2.0	2.2	2.0	2.4	1.8	0.6	2.4	1.2	1.1	2.2	2.5	1.4	0.5	1.0
Fluoride	[µg]	28.1	28.1	24.5	25.4	9.7	30.5	101.3	47.5	25.4	13.1	65.7	70.9	69.1	63.5	10.9	91.9	25.4	20.1	64.6	90.4	58.3	9.8	46.6
Iron	[mg]	1.1	1.1	13.0	3.5	1.0	1.5	3.5	5.8	3.5	5.6	2.3	2.0	3.1	2.2	0.7	2.9	3.5	6.4	2.7	2.5	3.0	0.6	1.3
Phytosterol	[mg]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Caffeine	[mg]	0.0	0.0	6.0	6.6	0.0	0.0	0.0	19.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	18.4	0.0	0.0	6.7	0.0	0.0

Tab. S1. continued

Component	Units	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	r	s	t	u	v	y	z
		Blackberry cheesecake	Blue magic cheesecake	Brownie	Cherry chocolate tart	Chia pudding	Cinnamon roll	Croissant	Dark chocolate cookie	Fruit tart	Ganache tart	Gluten free bagels	Granola bar	Huckleberry cheesecake	Ketogenic aronia cookie	Ketogenic cheesecake	Lemon matcha cheesecake	Mascarpone tart	Naked sponge cake	Oatmeal vegan cookie	Peanut butter energy ball	Snickers	Spanish cake	White chocolate cookie
Lactose	[g]	1.6	1.6	0.0	2.3	0.0	1.7	0.0	0.1	2.3	0.0	0.6	2.8	0.0	0.1	1.9	0.0	2.3	1.3	0.0	0.0	0.0	1.9	3.5
Water	[g]	60.0	60.0	8.9	59.0	86.8	49.1	23.6	15.6	59.0	19.4	47.3	20.4	34.2	33.8	67.3	48.0	59.0	46.0	21.1	24.5	29.9	63.8	13.8
Fibre (total)	[g]	1.0	1.0	9.7	1.8	3.6	0.8	9.3	5.4	1.8	5.8	5.4	4.0	4.6	5.5	0.0	2.1	1.8	3.6	6.4	8.1	8.5	0.0	0.5
Fibre (soluble)	[g]	0.3	0.3	0.6	0.2	0.3	0.4	2.2	0.7	0.2	0.3	1.6	1.6	0.8	1.5	0.0	0.3	0.2	0.0	3.0	3.0	1.4	0.0	0.0
Fibre (insoluble)	[g]	0.6	0.6	3.0	0.3	0.7	0.6	7.2	2.4	0.3	3.2	4.0	2.3	3.6	3.4	0.0	1.7	0.3	0.1	3.5	3.1	6.3	0.0	0.5
Vitamin C	[mg]	3.2	3.2	5.6	1.0	14.2	1.1	0.6	0.0	1.0	1.8	0.6	1.2	5.0	5.4	2.7	4.0	1.0	2.1	1.8	1.8	1.5	1.2	0.0
Calcium	[mg]	84.6	84.6	117.0	113.1	70.1	285.2	88.3	344.4	113.1	151.2	73.5	93.6	44.6	66.9	94.9	26.4	113.1	54.2	124.8	40.6	49.3	65.1	490.0
Starch	[g]	5.0	5.0	0.7	8.5	0.1	6.5	51.5	18.7	8.5	2.2	34.8	14.2	0.1	0.2	0.0	2.0	8.5	7.3	23.4	15.4	4.3	0.5	0.5
Fructose	[g]	14.6	14.6	14.1	0.3	2.0	0.6	0.1	0.0	0.3	6.5	0.3	1.2	5.0	1.4	0.1	1.0	0.3	1.5	0.7	1.6	13.2	0.9	0.0
Phosphorus	[mg]	133.7	133.7	435.1	182.3	88.3	177.6	320.8	365.7	182.3	276.1	230.5	240.6	245.4	235.3	141.0	234.0	182.3	128.6	249.2	277.8	175.3	115.1	342.5
Potassium	[mg]	166.3	166.3	1 254.4	327.1	228.8	185.6	350.4	513.4	327.1	647.5	274.9	353.5	456.9	386.2	126.7	388.4	327.1	559.3	437.3	530.4	649.5	108.6	275.0
Folate (total)	[μ g]	25.4	25.4	55.3	28.7	22.1	93.6	104.5	24.3	28.7	42.0	55.0	27.9	41.3	18.3	24.7	35.0	28.7	8.5	59.8	67.9	65.9	20.6	9.5
Carotene	[mg]	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.1	0.6	0.0	0.0	0.1	0.1
Vitamin A	[μ g]	213.2	213.2	130.6	160.8	9.6	195.1	11.2	134.2	160.8	3.2	10.5	151.6	8.2	147.4	221.5	1.7	160.8	176.0	98.5	1.9	2.5	255.4	198.3
Sodium	[mg]	103.7	103.7	285.0	765.6	20.1	444.9	1 445.3	254.7	765.6	34.9	680.5	46.6	1.2	247.6	215.2	7.9	765.6	53.8	178.1	14.3	19.8	203.9	422.0
Antioxidant	[mmol]	0.7	0.7	1.3	0.7	0.0	0.4	0.0	2.0	0.7	0.5	0.1	0.2	0.3	0.3	0.0	0.6	0.7	2.0	0.7	0.5	0.8	0.0	0.2
Vitamin B1	[mg]	0.1	0.1	0.2	0.1	0.1	0.1	0.5	0.2	0.1	0.3	0.4	0.2	0.3	0.1	0.1	0.3	0.1	0.0	0.3	0.2	0.3	0.0	0.1
Omega 3 fatty acids	[g]	0.2	0.2	1.0	0.1	1.4	0.1	0.1	0.1	0.1	3.5	0.1	0.1	1.3	0.1	0.1	0.0	0.1	0.1	0.9	2.0	0.2	0.1	0.1
Selenium	[μ g]	3.7	3.7	17.1	7.1	0.0	5.0	0.0	2.6	7.1	0.0	0.8	0.0	0.0	2.5	6.0	0.0	7.1	0.2	0.0	0.0	0.0	5.1	3.2
Essential amino acids	[g]	3.5	3.5	8.2	3.4	0.2	2.6	4.3	3.4	3.4	4.9	4.0	4.8	5.7	6.1	5.0	5.1	3.4	2.1	6.3	9.1	5.8	4.4	2.8
Folate (C)	[μ g]	25.4	25.4	0.0	28.7	0.0	93.6	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0
Choline total	[mg]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Medium chain fatty acids	[g]	0.6	0.6	0.0	0.3	0.0	0.8	0.0	0.7	0.3	0.0	0.0	0.8	0.0	0.6	0.5	0.0	0.3	0.6	0.0	0.0	0.0	0.6	0.9
Glutamine	[g]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Omega 6 fatty acids	[g]	1.4	1.4	5.5	1.1	0.5	0.7	2.4	0.8	1.1	16.5	1.5	3.0	8.8	5.9	0.7	4.0	1.1	0.5	7.0	8.3	4.8	0.7	0.8