TwoCal Bolus

2.0 kcal/ml complete, balanced, energy dense liquid with FOS*

FOR HEALTHCARE PROFESSIONAL USE ONLY

PRESENTATION

- Presented in 200 ml (399 kcal) bottles.
- Designed specifically for bolus feeding via a feeding tube.
- TwoCal Bolus is unflavoured.

TwoCal is also available in 1000 ml (1997 kcal) Ready to Hang (RTH) containers, for tube feeding.
N.B. There is a separate datasheet for Ensure TwoCal, which is available in 200 ml bottles and four different flavours.

USES

Food for Special Medical Purposes, for use under medical supervision. Suitable as a sole source of nutrition or as a nutritional supplement for patients who cannot or will not eat sufficient quantities of everyday food and drink to meet their nutritional requirements.

Nutritionally complete for vitamins and minerals in 1750 ml (875 ml excluding electrolytes), calculated using the UK Reference Nutrient Intake for men aged 19-50 years).

INDICATIONS / COMMUNITY USE

Suitable for the following:

- Patients with disease-related malnutrition
- Catabolic patients
- Fluid-restricted patients
- Other patients requiring a 2kcal/ml feed

Available on the GMS (General Medical Services) Scheme.

No HSE Online Application Approval required.

STORAGE

- Store unopened at room temperature.
- Shake well. Once opened, unused product should be resealed and stored in a refrigerator.
- Unused contents should be discarded after 24 hours.

*fructo-oligosaccharides

DIRECTIONS FOR USE

- Ready for use.
- Administer at room temperature for tube feeding.
- The volume/flow rate should be adjusted to meet the patient's nutritional needs and tolerance. This product has a low viscosity and will pass down a fine nasogastric tube.
- A Flexitainer enteral nutrition container may be used if decanting is necessary.
- For gravity feeding, the use of a Flexiflo gravity gavage set is recommended.
- An Abbott enteral feeding pump may be used in conjunction with the Abbott enteral feeding system where a more accurately controlled delivery of feed is indicated. An ambulatory system is available.
- 200ml bottle will attach to all Abbott giving sets.

PRECAUTIONS

- In patients receiving some medications there may be a risk of drug nutrient interactions (e.g. warfarin and vitamin K). Careful prescribing and monitoring practices will serve to reduce the risk (please refer to pharmacist).
- Unless recommended by a qualified healthcare professional, not intended for use in children.
- Patients should not make any additions to the feed without consulting their pharmacist or dietitian.

CONTRA-INDICATIONS

- FOR ENTERAL USE ONLY.
- Not for use in galactosaemia.
- Suitable for people with diabetes provided that routine glucose checks are performed.

INGREDIENTS

Water, hydrolysed corn starch, ***milk*** proteins, vegetable oils (high oleic sunflower, soy, canola), maltodextrin, sucrose, FOS, minerals (sodium citrate, potassium chloride, magnesium phosphate dibasic, magnesium chloride, potassium citrate, ferrous sulphate, zinc sulphate, manganese sulphate, cupric sulphate, sodium molybdate, chromium chloride, sodium selenate, potassium iodide), emulsifier: ***soy*** lecithin, choline chloride, vitamins (C, niacinamide, calcium pantothenate, E, B_6, B_1, B_2, vitamin A palmitate, folic acid, biotin, K_1, D_3, B_{12}), taurine, l-carnitine, acidity regulator: E525.

GENERAL INFORMATION

Energy density	2.0 kcal/ml
Energy distribution:	
Protein	16.8%
Carbohydrate	42.1%
Fat	40.1%
Fibre (FOS)	1.00%
Renal solute load	637 mOsm/L
Osmolarity	560 mOsm/L
Osmolality	800 mOsm/kg H_2O
Gluten free?	✓
Clinically lactose free?	✓
Milk free?	×
Suitable for vegetarians?	✓[1]
Suitable for Halal and Kosher diets?	✓

For suitability for other diets and free-from information, please contact the Freephone Nutrition Helpline on 1800 411 411

1. Vitamin D is synthesised from cholesterol, extracted from the grease in wool sheared from live sheep.

March 2021

Abbott

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NUTRITION INFORMATION

	units	per 100 ml	per 200 ml
Energy	kJ	837	1674
	kcal	200	399
Fat	g	8.90	17.8
- of which saturates	g	0.85	1.70
- of which MCT**	g	0.01	0.02
Carbohydrate	g	21.0	42.0
- of which sugars	g	4.65	9.30
Fibre	g	1.00	2.00
- of which FOS	g	1.00	2.00
Protein (nitrogen)	g	8.40 (1.34)	16.8 (2.69)
Salt	g	0.33	0.66
Vitamins			
Vitamin A (RE)	µg	158	316
- of which β-carotene (RE)	µg	0	0
Vitamin D_3	µg	1.70	3.40
Vitamin E (α TE)	mg	3.4	6.8
Vitamin K_1	µg	8.5	17
Vitamin C	mg	20	40
Folacin (folic acid)	µg	48	96
Thiamin (vitamin B_1)	mg	0.30	0.60
Riboflavin (vitamin B_2)	mg	0.29	0.58
Vitamin B_6	mg	0.34	0.68
Vitamin B_{12}	µg	0.64	1.28
Niacin (NE)	mg	3.4	6.8
Pantothenic acid	mg	1.6	3.2
Biotin	µg	8.0	16
Minerals			
Sodium	mg (mmol)	130 (5.65)	260 (11.3)
Potassium	mg (mmol)	200 (5.12)	400 (10.2)
Chloride	mg (mmol)	180 (5.08)	360 (10.2)
Calcium	mg (mmol)	150 (3.74)	300 (7.49)
Phosphorus (phosphate)	mg (mmol)	120 (3.87)	240 (7.75)
Magnesium	mg (mmol)	40 (1.65)	80 (3.29)
Iron	mg	2.1	4.2
Zinc	mg	2.4	4.8
Manganese	mg	0.55	1.1
Copper	mg	0.24	0.48
Iodine	µg	16	32
Selenium	µg	9.0	18
Chromium	µg	10	20
Molybdenum	µg	16	32
Taurine	mg	16	32
L-carnitine	mg	16	32
Choline	mg	63	126
Water	g	70.3	141

*fructo-oligosaccharides

**medium-chain triglycerides (C6:0 - C12:0)

PROTEIN & AMINO ACIDS

	g/100 g protein	g/100 ml	g/200 ml
Protein source			
Milk protein isolate	80.0	6.72	13.4
Sodium caseinate	20.0	1.68	3.36
Amino acids			
- Essential			
Histidine	2.56	0.21	0.42
Isoleucine	5.03	0.42	0.84
Leucine	8.94	0.75	1.50
Lysine	7.66	0.64	1.28
Methionine	2.49	0.21	0.42
Phenylalanine	4.62	0.39	0.78
Threonine	4.61	0.39	0.78
Tryptophan	1.47	0.12	0.24
Valine	6.10	0.51	1.02
Arginine	3.28	0.28	0.56
-Non-essential			
Alanine	3.05	0.26	0.52
Aspartic acid	3.47	0.29	0.58
Cystine	0.58	0.05	0.10
Glutamic acid	9.26	0.78	1.56
Glycine	1.82	0.15	0.30
Proline	10.1	0.85	1.70
Serine	5.52	0.46	0.92
Tyrosine	5.00	0.42	0.84
Asparagine	3.65	0.31	0.62
Glutamine	10.8	0.91	1.82
Non-protein calorie: N	124 : 1		

CARBOHYDRATES

	% total carbohydrates	g/100 ml	g/200 ml
Carbohydrate source			
Corn syrup	52.7	11.1	22.1
Maltodextrin	34.9	7.33	14.7
Sucrose	12.0	2.52	5.04
Oligofructose (fructo-oligosaccarides)	0.31	0.07	0.13

FIBRE

	% total fibre	g/100 ml	g/200 ml
Fibre source			
Oligofructose	100.0	1.00	2.00

Soluble fibre content: 100%

FAT & FATTY ACIDS

		% total fatty acids	g/100 ml	g/200 ml
Fat source				
High oleic sunflower oil		60.6	5.39	10.8
Soy oil		27.0	2.40	4.81
Canola oil		10.0	0.89	1.78
Lecithin		2.40	0.21	0.43
Fatty acids		g/100 g fat	g/100 ml	
- Essential				
Linoleic acid	C18:2	21.6	1.93	3.86
Linolenic acid	C18:3	2.35	0.21	0.42
- Monounsaturated				
Palmitoleic acid	C16:1	0.14	0.01	0.02
Oleic acid	C18:1	61.1	5.44	10.9
Petroselinic acid	C18:1	0.08	0.01	0.02
Gadoleic acid	C20:1	0.21	0.02	0.04
Erucic acid	C22:1	0.07	0.01	0.02
- Saturated				
Caproic acid	C6:0	-	-	-
Caprylic acid	C8:0	-	-	-
Capric acid	C10:0	-	-	-
Lauric acid	C12:0	0.06	0.01	0.02
Myristic acid	C14:0	0.03	trace	Trace
Palmitic acid	C16:0	5.85	0.52	1.04
Margaric acid	C17:0	0.07	0.01	0.02
Stearic acid	C18:0	2.76	0.25	0.50
Arachidic acid	C20:0	0.37	0.03	0.06
Behenic acid	C22:0	0.62	0.06	0.12
Tricosanoic acid	C23:0	-	-	-
Lignoceric acid	C24:0	0.15	0.01	0.02
P/S ratio	2.43			
n6:n3 ratio	9.2 : 1			

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