



# Nepro HP

## 1.8 kcal/ml high protein liquid with modified micronutrient levels and FOS (fructo-oligosaccharides)

### PRESENTATION

- Presented in 220 ml (396 kcal) reclosable plastic bottles and a 500 ml (900 kcal) Ready to hang (RTH) presentation.
- Nepro HP 220ml bottle is available in strawberry and vanilla flavours. Nepro HP RTH is available in vanilla flavour.

### 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.

Nepro HP is a high energy enteral feed with modified micronutrient levels and fructooligosaccharides (FOS), specifically designed for patients who require electrolyte and fluid restrictions.

### COMMUNITY USE—PRESCRIPTIONS

Can be prescribed on a FP10 (GP10 in Scotland) for the following indications:

- Patients with chronic renal failure on haemodialysis or CAPD
- Cirrhosis
- Other conditions requiring a high-energy, low fluid, low electrolyte diet

All prescriptions should be endorsed ACBS (Advisory Committee on Borderline Substances).

Available on the DPS (Drugs Payment Scheme) and GMS (General Medical Services) scheme in Ireland.

### STORAGE & DIRECTIONS FOR SIP FEEDING

- Store unopened at room temperature. RTH bottles should be stored avoiding prolonged exposure to light.
- Ready for use. Open immediately prior to use.
- Shake well before use.
- Best served chilled if taken orally.
- Once opened, unused product should be covered and stored in a refrigerator. Unused contents should be discarded after 24 hours.

### DIRECTIONS FOR TUBE FEEDING

- 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 Nutrition enteral feeding pump may be used in conjunction with the Abbott Nutrition enteral feeding system where a more accurately controlled delivery of feed is indicated. An ambulatory system is available.
- Both the 220ml bottle and 500ml container will attach to all Abbott Nutrition 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).
- Patients should not make any additions to the feed without consulting their pharmacist or dietitian.
- Many nutritional products contain sucrose and other sugars. It is important for patients who are taking supplements as sip feeds to observe good oral hygiene.
- Unless recommended by a qualified healthcare professional, not intended for use in children.
- When feeding orally to patients with dysphagia, please thicken the product as appropriate.

### 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, maltodextrin, vegetable oils (high oleic sunflower, canola), *milk* proteins, sucrose, glycerine, fructo-oligosaccharides, minerals (potassium citrate, sodium citrate, sodium chloride, calcium citrate, magnesium sulphate, ferrous sulphate, zinc sulphate, cupric sulphate, manganese sulphate, potassium iodide, chromium chloride, sodium molybdate, sodium selenate), emulsifier: **soy** lecithin, flavouring, choline chloride, stabilisers (E460, E466), L-carnitine, vitamins (C, niacinamide, calcium pantothenate, B<sub>6</sub>, B<sub>1</sub>, B<sub>2</sub>, E, vitamin A palmitate, folic acid, biotin, K<sub>1</sub>, D<sub>3</sub>, B<sub>12</sub>), taurine.

Note: all information based on vanilla flavour. Some minor differences exist between flavours.

### GENERAL INFORMATION

Energy density	1.8 kcal/ml
Energy distribution:	
Protein	18.0%
Carbohydrate	31.8%
Fat	48.8%
Fibre (FOS)	0.93%
Renal solute load	543 mOsm/L
Osmolarity	538 mOsm/L
Osmolality	735 mOsm/kg H <sub>2</sub> O
Gluten free?	✓
Clinically lactose free?	✓
Milk free?	✗
Suitable for vegetarians?	✓ <sup>1,2</sup>

For suitability for other diets and free-from information, please contact the Freephone Nutrition Helpline on 0800 252882.

1. Strawberry flavour contains E120 (cochineal) which some people may consider to be a meat product.  
 2. Vitamin D is synthesised from cholesterol, extracted from the grease in wool sheared from live sheep.



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### NUTRITION INFORMATION

	units	per 100 ml	per 220 ml
<b>Energy</b>	<b>kJ</b>	<b>752</b>	<b>1655</b>
	<b>kcal</b>	<b>180</b>	<b>396</b>
<b>Fat</b>	<b>g</b>	<b>9.77</b>	<b>21.5</b>
- of which saturates	g	0.73	1.61
- of which MCT*	g	0.01	0.02
<b>Carbohydrates</b>	<b>g</b>	<b>14.7</b>	<b>32.4</b>
- of which sugars	g	3.20	7.0
- of which polyols	g	1.10	2.4
<b>Fibre</b>	<b>g</b>	<b>1.26</b>	<b>2.77</b>
- of which FOS	g	0.84	1.85
<b>Protein</b>	<b>g</b>	<b>8.10</b>	<b>17.8</b>
<b>Salt</b>	<b>g</b>	<b>0.18</b>	<b>0.40</b>

<b>Vitamins</b>			
Vitamin A (RE)	µg	95	210
Vitamin D <sub>3</sub>	µg	1.2	2.5
Vitamin E	mg	3.4	7.4
Vitamin K <sub>1</sub>	µg	9.0	20
Vitamin C	mg	10.5	23
Folic acid	µg	60	132
Vitamin B <sub>1</sub>	mg	0.42	0.92
Vitamin B <sub>2</sub>	mg	0.50	1.1
Vitamin B <sub>6</sub>	mg	0.50	1.1
Vitamin B <sub>12</sub>	µg	0.85	1.9
Niacin (NE)	mg	3.4	7.5
Pantothenic acid	mg	1.6	3.5
Biotin	µg	9.0	20

<b>Minerals</b>			
Sodium	mg (mmol)	70 (3.04)	154 (6.70)
Potassium	mg (mmol)	106 (2.71)	233 (5.97)
Chloride	mg (mmol)	84 (2.37)	185 (5.21)
Calcium	mg (mmol)	106 (2.64)	233 (5.83)
Phosphorous (phosphate)	mg (mmol)	72 (2.32)	158 (5.06)
Magnesium	mg (mmol)	21 (0.86)	46 (1.92)
Iron	mg	1.9	4.2
Zinc	mg	1.9	4.2
Manganese	mg	0.21	0.46
Copper	µg	210	462
Iodine	µg	16	35
Selenium	µg	7.4	16
Chromium	µg	4.5	9.9
Molybdenum	µg	8.0	18
Taurine	mg	16	35
Carnitine	mg	26.5	58
Choline	mg	63.5	140

<b>Water</b>	<b>g</b>	<b>73.3</b>	<b>161</b>
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### PROTEIN & AMINO ACIDS

	g/100 g protein	g/100 ml	g/220 ml
<b>Protein source</b>			
Calcium caseinate	40.0	3.24	7.13
Magnesium caseinate	19.0	1.54	3.39
Sodium caseinate	15.0	1.22	2.67
Milk protein isolate	26.0	2.11	4.63

<b>Amino acids</b>			
<b>- Essential</b>			
Histidine	2.58	0.21	0.46
Isoleucine	4.81	0.39	0.86
Leucine	8.90	0.72	1.58
Lysine	7.47	0.60	1.32
Methionine	2.58	0.21	0.46
Phenylalanine	4.77	0.39	0.86
Threonine	4.25	0.34	0.75
Tryptophan	1.22	0.10	0.22
Valine	6.06	0.49	1.08
Arginine	3.45	0.28	0.62

<b>-Non-essential</b>			
Alanine	2.91	0.24	0.53
Aspartic acid	3.02	0.24	0.53
Cystine	0.43	0.03	0.07
Glutamic acid	10.8	0.88	1.94
Glycine	1.79	0.15	0.33
Proline	10.2	0.83	1.83
Serine	5.48	0.44	0.97
Tyrosine	5.15	0.42	0.92
Asparagine	4.01	0.32	0.70
Glutamine	10.1	0.82	1.80

Non-protein calorie: N 114:1

### CARBOHYDRATES

	% total carbohydrates	g/100 ml	g/220 ml
<b>Carbohydrate source</b>			
Maltodextrin	72.2	10.6	23.3
Sucrose	14.4	2.12	4.66
Glycerine	7.27	1.07	2.35
Fructooligosaccharide powder	5.81	0.85	1.88
Stabilisers: cellulose (E460), carboxymethyl cellulose (E466)	0.32	0.05	0.11

### FIBRE

	% total fibre	g/100 ml	g/220 ml
<b>Fibre source</b>			
Fructooligosaccharide powder	67.2	0.85	1.86
Maltodextrin	32.2	0.41	0.89
Stabilisers: cellulose (E460), carboxymethyl cellulose (E466)	0.62	0.01	0.02
Soluble fibre content: 99.4% Insoluble fibre content: 0.6%			

### FAT & FATTY ACIDS

	% total fatty acids	g/100 ml	g/220 ml	
<b>Fat source</b>				
High oleic sunflower oil	67.0	6.55	14.4	
Canola oil	29.0	2.83	6.23	
Lecithin	4.00	0.39	0.86	
<b>Fatty acids</b>				
<b>- Essential</b>				
Linoleic acid	C18:2	12.9	1.26	2.77
Linolelaidic acid	C18:2	-	-	-
Linolenic acid	C18:3	2.75	0.27	0.59
Eicosadienoic acid (EPA)	C20:2	-	-	-

<b>- Monounsaturated</b>				
Palmitoleic acid	C16:1	0.11	0.01	0.02
Oleic acid	C18:1	71.3	7.00	15.4
Gadoleic acid	C20:1	0.51	0.05	0.11
Erucic acid	C22:1	0.21	0.02	0.04

<b>- Saturated</b>				
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	-	-	-
Palmitic acid	C16:0	4.43	0.43	0.95
Margaric acid	C17:0	-	-	-
Stearic acid	C18:0	2.73	0.27	0.59
Arachidic acid	C20:0	0.40	0.04	0.09
Behenic acid	C22:0	0.66	0.06	0.13
Tricosanoic acid	C23:0	-	-	-
Lignoceric acid	C24:0	0.21	0.02	0.04

P/S ratio 1.84  
n6:n3 ratio 4.8 : 1

Abbott Laboratories Ltd., Abbott House, Vanwall Business Park, Vanwall Rd., Maidenhead, Berks. SL6 4XE. Tel: 0800 252882. [abbottnutrition.co.uk](http://abbottnutrition.co.uk)

Abbott Laboratories (Ireland) Ltd., Liffey Valley Office Campus, Dublin 22. Tel: (01) 4691500 Fax: (01) 4691501 [abbottnutrition.ie](http://abbottnutrition.ie)

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