


Abbott Nutrition Vital e-detail

March 23, 2010

REFERENCE

none




YOU NEEDED A SEPARATE BRIEFCASE JUST FOR YOUR PHONE.

Technology has evolved
over the past 20 years.

Now, the technology to meet
GI tolerance goals has, too.

SKIP

**Abbott**
A Promise for Life

Use under medical supervision.



IT TOOK 10 D-BATTERIES TO GET THE PARTY STARTED.

Technology has evolved over the past 20 years.

Now, the technology to meet GI tolerance goals has, too.

SKIP



REFERENCE

none



YOUR TAPE PLAYER ATE YOUR FAVORITE MIX TAPE. AGAIN.

Technology has evolved over the past 20 years.
Now, the technology to meet GI tolerance goals has, too.

SKIP





Abbott
A Promise for Life

Use under medical supervision.

REFERENCE

none



Menu **INTRO**

► **NUTRITION GOALS FOR TOLERANCE**

Reaching Goals

INTRODUCING VITAL

Features and Benefits

STRUCTURED LIPIDS

Fewer GI Complications

WHEY-DOMINANT PROTEIN

Faster Gastric Emptying

PREBIOTICS

SUMMARY

AVAILABILITY

PROMOTING OPTIMAL NUTRITION FOR GI TOLERANCE HAS ALWAYS BEEN THE GOAL.

Your patients need a tolerance formula that:

- 1. Reduces GI symptoms
- 2. Optimizes nutrition support to reduce catabolism
- 3. Improves absorption and tolerance of nutrients
- 4. Maintains GI integrity



PREV

YOUR VITAL EDUCATION HAS BEGUN.

NEXT

Your Vital Evolution



10% Evolved



REFERENCE

none



Menu **INTRO**

**NUTRITION GOALS
FOR TOLERANCE**

► Reaching Goals

INTRODUCING VITAL

Features and Benefits

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WHEY-DOMINANT PROTEIN

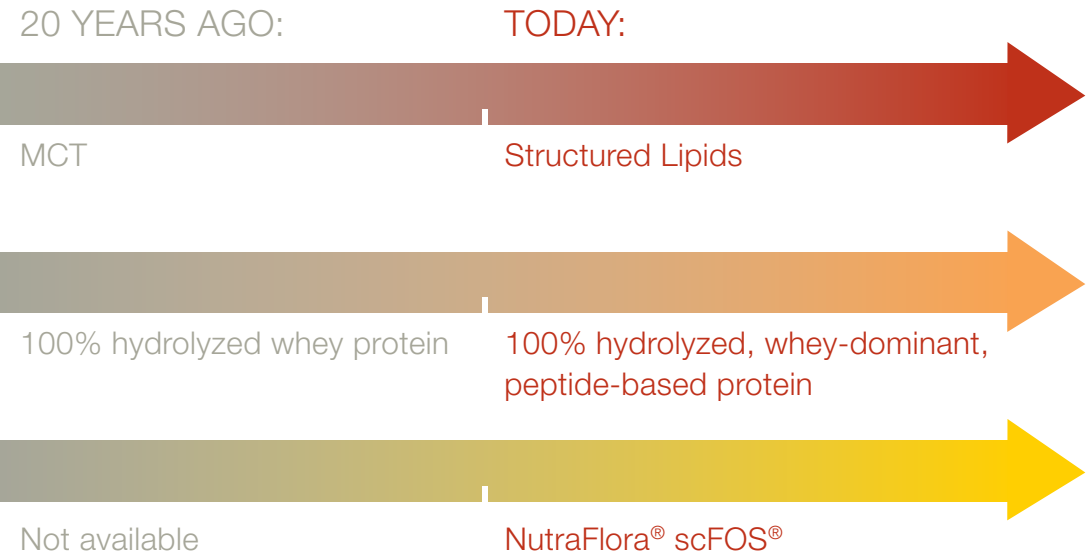
Faster Gastric Emptying

PREBIOTICS

SUMMARY

AVAILABILITY

TODAY, HOW YOU
MEET THAT GOAL
IS CHANGING.



PREV

YOUR
EVOLUTION
IS **20%**
COMPLETE.

NEXT

Your Vital
Evolution



20% Evolved



REFERENCE

none



**NUTRITION GOALS
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Reaching Goals

► **INTRODUCING VITAL**

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INTRODUCING VITAL.

Vital® 1.0 Cal and Vital® 1.5 Cal

Tolerance. Evolved.

With advanced-technology structured lipids, a whey-dominant peptide-based protein system, and prebiotic, Vital is a whole new approach to nutrition therapy for supporting excellent GI tolerance and absorption.

Learn how your treatment can be more evolved with Vital.

For tube or oral feeding
For supplemental or sole-source nutrition
Not for parenteral use
Use under medical supervision



PREV

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IT'S TIME
TO QUESTION
HOW
INTOLERANCE
IS TREATED.

NEXT

Your Vital
Evolution



30% Evolved



REFERENCE

none



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EVOLVED NUTRITION THERAPY WITH ADVANCED- TECHNOLOGY INGREDIENTS.

**Tolerance nutrition needs haven't changed,
but the technology for managing them has.**

FEATURE	BENEFIT	VITAL® 1.0 CAL	VITAL® 1.5 CAL
Fat Blend Structured lipids include a balanced blend of polyunsaturated (omega-6 and omega-3) and monounsaturated fatty acids	Recommended by NCEP (National Cholesterol Education Program)	Polyunsaturated: 4.56% of energy	Polyunsaturated: 4.55% of energy
		Monounsaturated: 9.54% of energy	Monounsaturated: 9.51% of energy



PREV

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40%
EVOLVED
AND GOING
STRONG.

Your Vital
Evolution



40% Evolved



REFERENCE

none

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FEATURE	BENEFIT	VITAL® 1.0 CAL	VITAL® 1.5 CAL
Fat Blend Structured lipids include a balanced blend of polyunsaturated (omega-6 and omega-3) and monounsaturated fatty acids	Recommended by NCEP (National Cholesterol Education Program)	Polyunsaturated: 4.56% of energy	Polyunsaturated: 4.55% of energy
		Monounsaturated: 9.54% of energy	Monounsaturated: 9.51% of energy
Omega-3 Fatty Acids Good source of plant-based omega-3 fatty acids (ALA: alpha-linolenic acids)	Support heart and circulatory health ¹	Contains 1.68 g/L omega-3 fatty acids (ALA) from canola oil	Contains 2.4 g/L omega-3 fatty acids (ALA) from canola oil
Fatty Acid Ratio Low n-6:n-3 ratio	Supports heart health ¹	2.1:1 (0.9:1–10.9:1, RDI, IOM)	2.1:1 (0.9:1–10.9:1, RDI, IOM)
Protein 100% hydrolyzed, whey-dominant, peptide-based protein	Promotes absorption, tolerance, and faster gastric emptying	16% of total calories	18% of total calories
Carbohydrate NutraFlora® scFOS® prebiotic		Contains 4.2 g/L	Contains 6.0 g/L
Carbohydrate level is consistent with DRI recommendations	Supports blood glucose levels	51% of total calories	49% of total calories
Antioxidants Elevated levels of vitamins C and E	Help reduce free-radical damage ²	Vitamin C: 350 mg/L (RDI: 60 mg)	Vitamin C: 500 mg/L (RDI: 60 mg)
		Vitamin E: 70 IU/L (RDI: 30 IU)	Vitamin E: 100 IU/L (RDI: 30 IU)

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none



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► **STRUCTURED LIPIDS**

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BUILD BETTER OUTCOMES WITH STRUCTURED LIPIDS

**Next generation fats are now available for
the first time in a tolerance formulation.**

Structured lipids:

- Are better absorbed and tolerated¹⁻⁴
- Enhance absorption of fat-soluble vitamins and antioxidants 30%–40%⁵
- Increase delivery of essential fatty acids to peripheral organs and skeletal muscle 40%–50%⁴

**30-40%
more absorption**

**40-50%
better delivery**



PREV

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HALFWAY
EVOLVED
AND STILL SO
YOUNG.

STRUCTURED LIPIDS VIDEO ↻

Your Vital
Evolution



50% Evolved



REFERENCES

1. Kenler AS, Swails WS, Driscoll DF, et al. Early enteral feeding in postsurgical cancer patients: fish oil structured lipid-based polymeric formula versus a standard polymeric formula. *Ann Surg.* 1996;223(3):316–333.
2. McKenna MC, Hubbard VS, Bieri JG. Linoleic acid absorption from lipid supplements in patients with cystic fibrosis with pancreatic insufficiency and in control subjects. *J Pediatr Gastroenterol Nutr.* 1985;4:45–51.
3. Tso P, Karlstad MD, Bistran BR, DeMichele SJ. Intestinal digestion, absorption, and transport of structured triglycerides and cholesterol in rats. *Am J Physiol.* 1995;268 (*Gastrointest Liver Physiol.* 31):G568–G577.
4. Tso P, Lee T, DeMichele SJ. Lymphatic absorption of structured triglycerides vs. physical mix in a rat model of fat malabsorption. *Am J Physiol.* 1999;277 (*Gastrointest Liver Physiol.* 40):G333–G340.
5. Tso P, Lee T, DeMichele SJ. Randomized structured triglycerides increase lymphatic absorption of tocopherol and retinol compared with the equivalent physical mixture in a rat model of fat malabsorption. *J Nutr.* 2001;131:2157–2163.

Vital - e-detail



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STRUCTURED LIPIDS VIDEO

FPO

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NEXT

REFERENCES

1. Kris-Etherton PM, Harris WS, Appel LJ. Fish consumption, fish oil, omega-3 fatty acids, and cardiovascular disease. *Circulation*. 2002;106:2747–2757.
2. Jacob RA, Burri BJ. Oxidative damage and defense. *Am J Clin Nutr*. 1996;985S–990S.



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► Fewer GI Complications

WHEY-DOMINANT PROTEIN

Faster Gastric Emptying

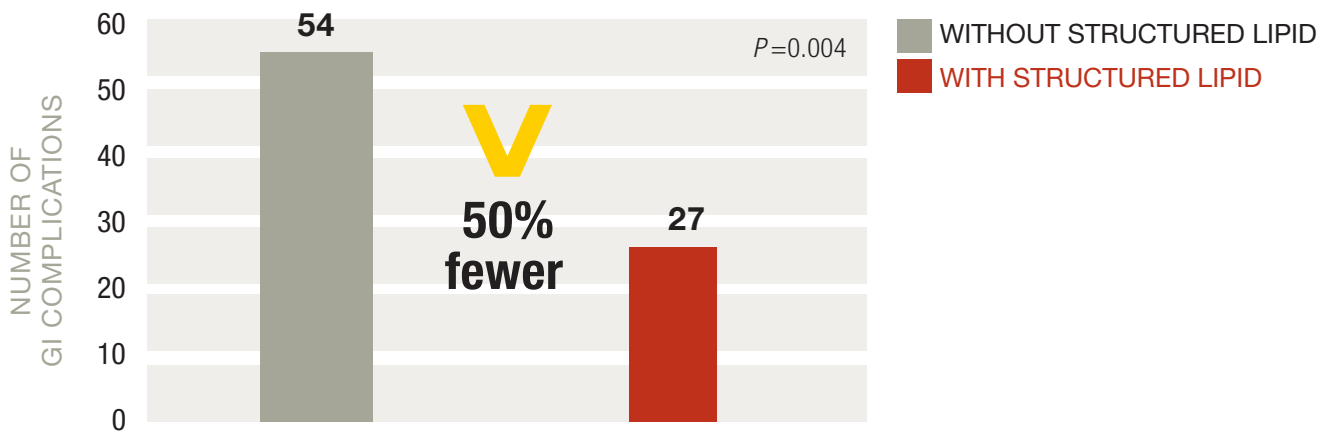
PREBIOTICS

SUMMARY

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BUILD BETTER OUTCOMES WITH STRUCTURED LIPIDS

**In clinical trials, structured lipids produced
50% fewer gastrointestinal complications¹**



REFERENCE

1. Kenler AS, Swails WS, Driscoll DF, et al. Early enteral feeding in postsurgical cancer patients: fish oil structured lipid-based polymeric formula versus a standard polymeric formula. *Ann Surg.* 1996;223(3):316–333.



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YOU'RE
ALMOST
AS EVOLVED
AS THE
NEW VITAL
FORMULATION.

Your Vital
Evolution



60% Evolved



	
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PEPTIDE-BASED PROTEIN LEADS TO BETTER TOLERANCE FOR YOUR PATIENTS.

Advanced technology has arrived, with peptide-based formulations that provide better absorption, tolerance, and maintenance of GI tract integrity¹ with:

- An advanced blend of hydrolyzed protein that meets the 2007 FAO/WHO/UNU Amino Acid Requirements²
 - Promotes nitrogen absorption, retention, and utilization^{3,4}
- A peptide-based formulation that:
 - Reduces diarrhea associated with hypoalbuminemia and malnutrition⁵⁻⁷



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NEXT

YOU'RE MORE THAN
HALFWAY
EVOLVED.

GUIDELINES SUPPORT

Your Vital Evolution



70% Evolved



REFERENCES

1. Daniel H. Molecular and integrative physiology of intestinal peptide transport. *Ann Rev Physiol.* 2004;66:361–384.
2. World Health Organization. Technical Report Series; no. 935: *Joint FAO/WHO/UNU Expert Consultation on Protein and Amino Acid Requirements in Human Nutrition.* Geneva, Switzerland: World Health Organization; 2007.
3. Zaloga GP. Intact proteins, peptides, and amino acid formulas. In: Zaloga GP, ed. *Nutrition In Critical Care.* St Louis: Mosby; 1994:59–80.
4. Grimble GK. The significance of peptides in clinical nutrition. *Annu Rev Nutr.* 1994;14:419–447.
5. Brinson RR, Pitts VL, Taylor AE. Intestinal absorption of peptide enteral formulas in hypoproteinemic (volume expanded) rats: a paired analysis. *Crit Care Med.* 1989;17:657–660.
6. Ziegler F, Olliver JM, Cynober L, et al. Efficiency of enteral nitrogen support in surgical patients: small peptides v non-degraded proteins. *Gut.* 1990;31(11):1277–1283.
7. Brinson RR, Kolts BE. Diarrhea associated with severe hypoalbuminemia: a comparison of a peptide-based chemically defined diet and standard enteral alimentation. *Crit Care Med.* 1988;16:130–136.



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PEPTIDE-BASED PROTEIN LEADS TO BETTER TOLERANCE FOR YOUR PATIENTS

Advanced technology has arrived in formulations that provide better tolerance and maintenance of GI tract in

- An advanced blend of hydrolyzed whey protein isolate, the 2007 FAO/WHO/UNU Amino Acid Requirements in Human Nutrition.
 - Promotes nitrogen absorption and utilization^{3,4}
- A peptide-based formulation
 - Reduces diarrhea associated with hypoalbuminemia and malnutrition

CRITICAL CARE GUIDELINES

Vital® 1.0 and Vital® 1.5 are supported by a recently published 2009 critical care nutrition guideline (Section E4):

- If there is evidence of diarrhea, soluble fiber-containing or small peptide formulations may be utilized, (Grade: E)⁸



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GUIDELINES SUPPORT

Your Vital Evolution



70% Evolved



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1. Daniel H. Molecular and integrative physiology of intestinal peptide transport. *Ann Rev Physiol.* 2004;66:361–384.
2. World Health Organization. Technical Report Series; no. 935: *Joint FAO/WHO/UNU Expert Consultation on Protein and Amino Acid Requirements in Human Nutrition.* Geneva, Switzerland: World Health Organization; 2007.
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4. Grimble GK. The significance of peptides in clinical nutrition. *Annu Rev Nutr.* 1994;14:419–447.
5. Brinson RR, Pitts VL, Taylor AE. Intestinal absorption of peptide enteral formulas in hypoproteinemic (volume expanded) rats: a paired analysis. *Crit Care Med.* 1989;17:657–660.
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7. Brinson RR, Kolts BE. Diarrhea associated with severe hypoalbuminemia: a comparison of a peptide-based chemically defined diet and standard enteral alimentation. *Crit Care Med.* 1988;16:130–136.
8. McClave SA, Martindale RG, Vanek VW, et al. Guidelines for the provision and assessment of nutrition support therapy in the adult critically ill patient: Society of Critical Care Medicine (SCCM) and American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.). *JPEN J Parenter Enteral Nutr.* 2009;33(3):277–316.



Menu **INTRO**

**NUTRITION GOALS
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STRUCTURED LIPIDS

Fewer GI Complications

WHEY-DOMINANT PROTEIN

▶ Faster Gastric Emptying

PREBIOTICS

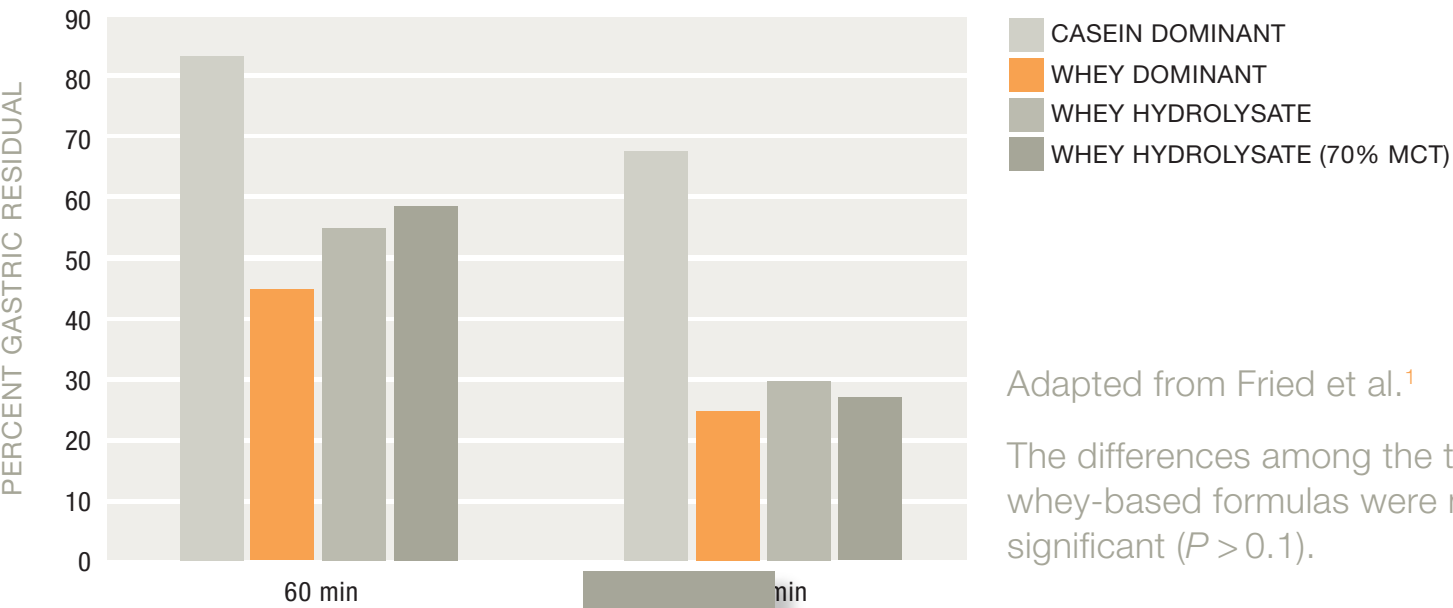
SUMMARY

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PRODUCE BETTER RESULTS WITH WHEY.

Whey-dominant peptides promote faster gastric emptying (than casein-based peptide formulas, $P<0.001$).



Adapted from Fried et al.¹
The differences among the three whey-based formulas were not significant ($P > 0.1$).

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NEXT

SOME
PEOPLE ARE
HAPPY WITH
80%.

Your Vital
Evolution



80% Evolved



REFERENCE

1. Fried MD, Khoshoo V, Secker DJ, et al. Decrease in gastric emptying time and episodes of regurgitation in children with spastic quadriplegia fed a whey-based formula. *J Pediatr.* 1992;120:569–572.



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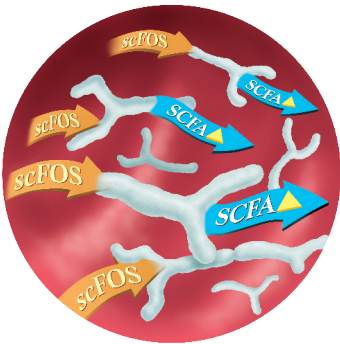
SUPPORT YOUR PATIENTS' GI TRACTS WITH NUTRAFLORA® SCFOS® *

- Help support GI-tract integrity
- Enhance calcium absorption (3 g/day)³⁻⁵

FIND OUT HOW
- Enhance water and electrolyte absorption

FIND OUT HOW
- Help support the immune system

FIND OUT HOW



Help support GI-tract integrity

Short-chain fructooligosaccharides ferment to short-chain fatty acids, which are a preferred energy source for colon cells,^{1,2} and do not contribute to residue.

REFERENCES

1. Mitsuoka T, Hidaka H, Eida T. Effect of fructooligosaccharides on intestinal microflora. *Nahrung*. 1987;31:427-436.
2. Gibson GR, Roberfroid MB. Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. *J Nutr*. 1995;125:1401-1412.
3. Uenishi K, Ohta A, Fukushima Y, et al. Effects of malt drink containing fructooligosaccharides on calcium absorption and safety of long-term administration. *Jpn J Nutr Diet*. 2002;60:11-18.
4. Fukushima Y, Jun CJ, Kegai K, et al. Calcium absorption of malt drink containing fructooligosaccharides and safety in humans. *J Nutr Food*. 2002;5:49-60.
5. Ohta A, Sakai, K, Takasaki M, Tokunaga T. The advantages of calcium supplement tablet (candy) containing fructooligosaccharides for the healthy human being. *J Nutr Food*. 1999;2:37-43.

* Short-chain fructooligosaccharides.



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AT THIS POINT, EVOLUTION IS POSSIBLY IMMINENT

Your Vital Evolution



90% Evolved



	
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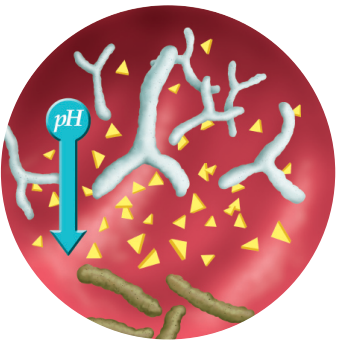
SUPPORT YOUR PATIENTS' GI TRACTS WITH NUTRAFLORA® SCFOS® *

Help support GI-tract integrity [FIND OUT HOW](#)

Enhance calcium absorption (3 g/day)³⁻⁵

Enhance water and electrolyte absorption [FIND OUT HOW](#)

Help support the immune system [FIND OUT HOW](#)



Enhance calcium absorption (3 g/day)³⁻⁵

scFOS increase calcium-binding protein, which allows more calcium to pass through the colon wall.



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Your Vital Evolution



90% Evolved



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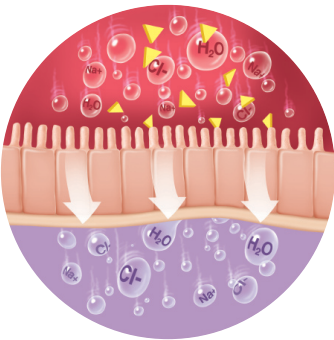
1. Mitsuoka T, Hidaka H, Eida T. Effect of fructooligosaccharides on intestinal microflora. *Nahrung*. 1987;31:427-436.
2. Gibson GR, Roberfroid MB. Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. *J Nutr*. 1995;125:1401-1412.
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SUPPORT YOUR PATIENTS' GI TRACTS WITH NUTRAFLORA® SCFOS® *

- Help support GI tract integrity [FIND OUT HOW](#)
- Enhance calcium absorption (3 g/day)³⁻⁵ [FIND OUT HOW](#)
- Enhance water and electrolyte absorption [FIND OUT HOW](#)
- Help support the immune system [FIND OUT HOW](#)



Enhance water and electrolyte absorption

Short-chain fructooligosaccharides enhance water and electrolyte absorption in the colon,⁶ important in the management of diarrhea.⁶



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NEXT

AT THIS POINT, EVOLUTION IS POSSIBLY IMMINENT



REFERENCES

1. Mitsuoka T, Hidaka H, Eida T. Effect of fructooligosaccharides on intestinal microflora. *Nahrung*. 1987;31:427–436.
2. Gibson GR, Roberfroid MB. Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. *J Nutr*. 1995;125:1401–1412.
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6. Bowling TE, Raimundo AH, Grimble GK, Silk DB. Reversal by short-chain fatty acids of colonic fluid secretion by enteral feeding. *Lancet*. 1993;342:1266–1268.

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SUPPORT YOUR PATIENTS' GI TRACTS WITH NUTRAFLORA® SCFOS® *

Help support GI tract integrity

FIND OUT HOW

Enhance calcium absorption (3 g/day)³⁻⁵

FIND OUT HOW

Enhance water and electrolyte absorption

FIND OUT HOW

Help support the immune system



Help support the immune system

scFOS feed beneficial bacteria in the GI tract⁷⁻⁹.



AT THIS POINT, EVOLUTION IS POSSIBLY IMMINENT



REFERENCES

1. Mitsuoka T, Hidaka H, Eida T. Effect of fructooligosaccharides on intestinal microflora. *Nahrung*. 1987;31:427-436.
2. Gibson GR, Roberfroid MB. Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. *J Nutr*. 1995;125:1401-1412.
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7. Bornet FRJ, Brouns F. Immune-stimulating and gut health-promoting properties of short-chain fructooligosaccharides. *Nutr Rev*. 2002;60(11):326-334.
8. Tokunaga T, Nakada Y, Yasuhito T, et al. Effects of fructooligosaccharides intake on the intestinal microflora and defecation in healthy volunteers. *Bifidus*. 1993;6:143-150.
9. Hidaka H, Eida T, Takizawa T, et al. Effects of fructooligosaccharides on intestinal flora and human health. *Bifidobacteria Microflora*. 1986;5:37-50.

* Short-chain fructooligosaccharides.



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STRUCTURED LIPIDS
Fewer GI Complications

WHEY-DOMINANT PROTEIN
Faster Gastric Emptying

PREBIOTICS

► **SUMMARY**

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VITAL SUMMARY.

Advanced-Technology Ingredients

- Structured Lipids Better absorption and tolerance¹⁻⁴
- 100% Hydrolyzed, Whey-Dominant, Peptide-Based Protein Better absorption, tolerance, and maintenance of GI-tract integrity¹; faster gastric emptying⁵
- NutraFlora® scFOS® Help maintain GI-tract integrity and manage diarrhea
- Elevated Levels of Vitamins C and E Help reduce free-radical damage⁶



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NEXT

DON'T QUIT
NOW. YOU'RE
ALMOST
COMPLETELY
EVOLVED.

Your Vital
Evolution



95% Evolved



REFERENCES

1. Mitsuoka T, Hidaka H, Eida T. Effect of fructo-oligosaccharides on intestinal microflora. *Nahrung*. 1987;31:427-436.
1. Kenler AS, Swails WS, Driscoll DF, et al. Early enteral feeding in postsurgical cancer patients: fish oil structured lipid-based polymeric formula versus a standard polymeric formula. *Ann Surg*. 1996;223(3):316-333.
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VITAL AVAILABILITY.

Item	Flavor	List Number
Ready-To-Hang® 1000-mL pre-filled containers; 8/case	1.0 Cal Vanilla	56281
	1.5 Cal Vanilla	56283
8-fl-oz cans; 24/case	1.0 Cal Vanilla	56277
	1.5 Cal Vanilla	56279

Call (800) 551-5838 to speak with an Abbott Nutrition a Sales Representative.

Not for IV use
Use under medical supervision
Gluten-free; suitable for lactose intolerance

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YOUR **FREE** DVD—
“CLINICAL PERSPECTIVES
IN GI INTOLERANCE.”



PREV

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NEXT

Your Vital
Evolution



Evolved



REFERENCE

none



Menu **INTRO**

**NUTRITION GOALS
FOR TOLERANCE**

Reaching Goals

INTRODUCING VITAL
Features and Benefits

STRUCTURED LIPIDS
Fewer GI Complications

WHEY-DOMINANT PROTEIN
Faster Gastric Emptying

PREBIOTICS

SUMMARY

► **AVAILABILITY**

VITAL AVAILABILITY.

Item	Flavor	List Number
Ready-To-Hang® 1000-mL pre-filled containers; 8/case	1.0 Cal Vanilla	56281
	1.5 Cal Vanilla	56283
8-fl-oz cans; 24/case	1.0 Cal Vanilla	56277



CONGRATULATIONS!
YOU ARE NOW
FULLY EVOLVED.

Call (800) 551-5838 to speak with an Abbott Nutrition Sales Representative.

Not for IV use
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