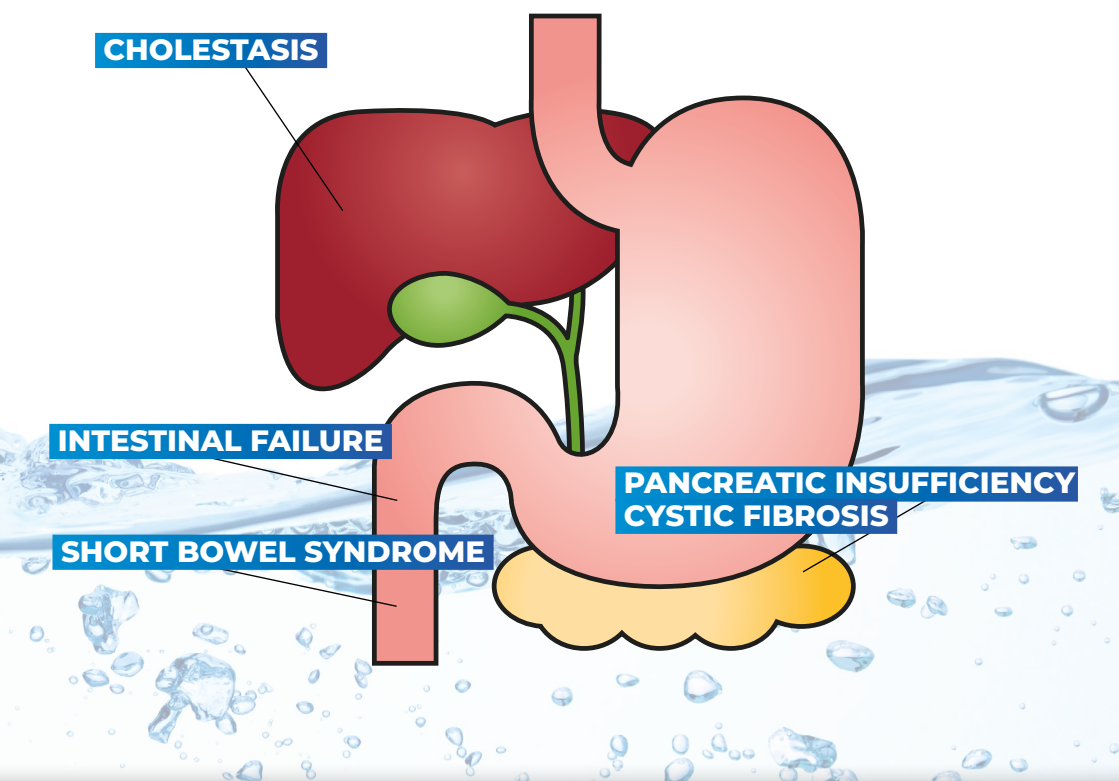


All-in-One Vitamins D+E+K+A

With Improved Uptake
in Fat Malabsorption



Fat Malabsorption? Check **vitamin levels!**

DEKAs product lines: Essential and Plus

DEKAs PRODUCT		 Essential liquid	 Essential capsules	 Plus liquid	 Plus chewables	 Plus softgels
One pack contains		60 ml liquid	60 capsules	60 ml liquid	60 chewables	60 softgels
		1 ml	1 capsule	1 ml	1 chewable	1 softgel
TPGS / Vitamin E*	IU	75	150	50	100	150
Vitamin D3	IU	2000	2000	750	2000	3000
Vitamin A as retinyl palmitate	IU	833	500	750	1500	1500
Vitamin A as beta-carotene**	IU	1666	1500	5001	16667	16667
Vitamin K1	µg	2000	1000	500	1000	1000
Zinc	mg			5	10	10
Selenium	µg			10	75	75
		Plus B & C vitamins in regular doses				

* TPGS: a water-soluble form of vitamin E forming micelles in aqueous solutions, enhancing absorption of fat-soluble vitamins
 ** Beta-carotene: a precursor to vitamin A (retinol) that is converted by the body to vitamin A (retinol) as needed

Causes of D+E+K+A vitamin deficiency



PANCREAS - EXOCRINE INSUFFICIENCY

- Cystic fibrosis
- Chronic pancreatitis
- Recurrent acute pancreatitis
- Pancreatic cancer
- Previous pancreatic surgery
- Shwachman-Diamond syndrome (SDS)



LIVER - CHOLESTASIS

- Primary Biliary Cholangitis (PBC)
- Primary Sclerosing Cholangitis (PSC)
- Congenital chronic cholestasis:
 - Biliary atresia
 - Alagille syndrome
 - α -1-antitrypsin (AAT) deficiency
 - Progr. Fam. Intrahepatic Chol. (PFIC)

Fat Malabsorption? Check **vitamin levels!**

DEKAs initial dosing in Fat Malabsorption

DEKAs PRODUCT daily dose		 Essential liquid	 Essential capsules	 Plus liquid	 Plus chewables	 Plus softgels
Patient group	Age					
Babies	0-1 year	0,5 -1 ml		1 ml		
Toddlers	1-3 years	0,5 -1 ml		1 ml		
Young children	4-10 years		1 cap		1 tablet	
Adolescents	11-17 years		1 cap		1 tablet	1 softgel
Adults			1 cap		1 tablet	1 softgel
Initial dosing:	can vary as directed by a physician based on age, weight, previous vitamin dosing, severity of malabsorption, serum vitamin levels etc.					
Further dosing:	based on serum vitamin levels					
Lower dosing:	consider increasing the dose interval					

“Fat-soluble (A, D, E, K) and water-soluble (vitamin B12, folic acid, thiamine) vitamins as well as minerals such as magnesium, iron, selenium and zinc should be monitored (if available) and administered if low concentrations are detected or if clinical signs of deficiency occur. Supplementation should be proposed to patients with known malabsorption.”

(ESPEN practical guideline on clinical nutrition in acute and chronic pancreatitis, 2024^a)

due to Fat Malabsorption



INTESTINE - INSUFFICIENCY

- Short bowel syndrome
- Intestinal motility disorders
- Enterocutaneous fistula
- Small bowel mucosal disease
- M. Waldmann - Primary Intestinal Lymphangiectasia (PIL)
- Hypolipidemias like abetalipoproteinemia (FHBL-SD1), bi-allelic familial hypo - betalipoproteinemia (FHBL-SD2), chylomicron retention disease (FHBL-SD3).

Choose Best in Class. Choose **DEKAs**.

Why choose **DEKAs**?

FEATURES OF DEKAS	ADVANTAGES AND BENEFITS
Vitamin E as TPGS (tocofersolan)*	Clinical studies show that TPGS enhances absorption of vitamins D, E, and A in cholestasis and/or Cystic Fibrosis ^b . TPGS is also a source of vitamin E ^b .
Water-soluble liquids	TPGS forms the micellar base that makes DEKAs water-soluble ^b . This makes DEKAs liquids mixable with all drinks, tea, cereals, yoghurt, milk, etc.
Vitamin A mainly as β -carotene	Beta-carotene is a safer form of vitamin A, that is converted to retinol as needed, with no known liver toxicity; any excess is easily eliminated ^c .
Vitamin K as vitamin K1	Form of vitamin K recommended in relevant guidelines ^d .
Various all-in-one product forms Neutral or pleasant flavors	Reduced treatment burden and potentially better adherence.
Formulated with clinical experts Clinically tested	Vitamin quantities adapted to clinical experience ^{e,f} . See overview by Guo et al ^b or contact us for an overview of published literature.
Retinol << 10000 IU per dose Vitamin D < 4000 IU per dose	Pregnancy is not a contraindication.

* D- α -tocopheryl polyethylene glycol-1000 succinate, also known as tocofersolan, vitamin E TPGS or TPGS.

References

a. Arvanitakis M, Ockenga J, Bezmarevic M, et al. ESPEN practical guideline on clinical nutrition in acute and chronic pancreatitis. Clin. Nutr. 2024, 43(2), 395 – 412.

b. Guo, Y.; Luo, J. The applications of Vitamin E TPGS in drug delivery. European Journal of Pharmaceutical Sciences 2013, 49(2), 175-186.

c. EFSA Panel on Food Additives and Nutrient Sources added to Food (ANS); Scientific Opinion on the re-evaluation of mixed carotenenes (E 160a(i)) and β -carotene (E 160a(ii)) as food additives. EFSA Journal 2012;10(3):2593.

d. Wilschanski M, Munck A, Carrion E, et al. ESPEN-ESPGHAN-ECFS guideline on nutrition care for cystic fibrosis. Clin Nutr. 2024, 43(2), 413-445.

e. Kamath BM, Alonso EM, Heubi JE, et al. Fat Soluble Vitamin Assessment and Supplementation in Cholestasis. Clin Liver Dis. 2022, 26(3),537-553.

f. Bredefeld C, Mahmood Hussain M, Avena M, et al. Guidance for the diagnosis and treatment of hypolipidemia disorders, Journal of Clinical Lipidology, 2022, 16(6), 797 – 812.

Fat Malabsorption? Check **vitamin levels!**

Product information: DEKAs Aqua-E liquid, food for special medical purposes. For the dietary management of patients with cholestatic liver disease.

NL FR Also, for the dietary management of fat-soluble vitamin deficiency (D, E, K, A) due to malabsorption of hepatic origin with chronic cholestasis, of intestinal origin due to insufficient or ineffective mucosal surface for absorption, or of pancreatic origin with exocrine insufficiency.

DEKAs Aqua-E is a unique, patented, water-soluble vitamin E formulation. Clinical testing has shown that the formulation of DEKAs Aqua-E increases the absorption of vitamin E in patients with malabsorption, such as patients with cholestatic liver disease. **Important notice:** Use only under medical supervision. Unless medically advised, do not administer to children under 4 years of age. Not for parenteral use. Cannot be used as a sole source of nutrition. The product poses a health hazard if consumed by persons who do not have the disease(s), disorder(s) or medical conditions for which the product is intended. Use in patients with significant renal insufficiency, vitamin K deficiency or taking oral vitamin K antagonists, or during pregnancy, only after consultation with a doctor. Do not use in newborn preterm infants. **Use and storage:** Shake well before each use. Take directly or mix it with a beverage. Do not use if the seal is broken or missing. Keep out of reach of children. Store at room temperature. Refrigerate after opening. Use within 60 days of opening. **Recommended dosage:** 1 ml (50 mg/75 IU of vitamin E) per 3 kg of body weight per day or as directed by a physician. Dosing should be guided by serum vitamin levels. **Allergens:** none.

Ingredients: water, D-alpha-tocopheryl polyethylene glycol-1000 succinate (TPGS), acidulant (citric acid), preservatives (potassium sorbate, sodium benzoate), linoleic acid.

Nutritional information			
contains 60 ml		1 ml	100 ml
Energy	kJ / kcal	4,9 / 1,2	490 / 120
Fat of which:	g	0,07	7,2
saturates	g	0	0
Carbohydrates of which:	g	0,13	13
Sugars	g	0	0
Protein	g	0	0
Salt	g	0	0 / 0
Vitamin E	mg (IU)	50 (75)	5000 (7500)

Product information: DEKAs Essential liquid, food for special medical purposes. For the dietary management of patients with cholestatic liver disease.

NL FR Also, for the dietary management of fat-soluble vitamin deficiency (D, E, K, A) due to malabsorption of hepatic origin with chronic cholestasis, of intestinal origin due to insufficient or ineffective mucosal surface for absorption, or of pancreatic origin with exocrine insufficiency.

DEKAs Essential liquid is a multivitamin supplement that contains higher amounts of fat-soluble vitamins. DEKAs Essential liquid utilizes a clinically tested delivery technology to enhance absorption of fat-soluble vitamins and nutrients. **Important notice:** Use only under medical supervision. Unless medically advised, do not administer to children under 4 years of age. Not for parenteral use. Cannot be used as a sole source of nutrition. The product poses a health hazard if consumed by persons who do not have the disease(s), disorder(s) or medical conditions for which the product is intended. Use in patients with significant renal insufficiency, taking oral vitamin K antagonists, or during pregnancy, only after consultation with a doctor. Do not use in newborn preterm infants.

Use and storage: Do not use if the seal is broken or missing. Keep out of reach of children. Store at room temperature. Refrigerate after opening. Use within 60 days of opening. **Recommended dosage:** 0,5 - 1 ml daily or as directed by physician. Dosing should be guided by serum vitamin levels. Take with meals. Shake well before use. **Allergens:** none.

Ingredients: water, D-alpha-tocopheryl polyethylene glycol-1000 succinate (TPGS), beta-carotene, acidulant (ascorbic acid), cholecalciferol, phytomenadione, natural and artificial flavors, preservatives (potassium sorbate, sodium benzoate), retinyl palmitate, antioxidant (tocopherol-rich extract), sweetener (sucralose).

Nutritional information				
contains 60 ml		0,5 ml	1 ml	100 ml
Energy	kJ / kcal	4 / 1	8 / 2	800 / 200
Fat of which:	g	0,04	0,07	7,2
saturates	g	0	0	0
Carbohydrates of which:	g	0,07	0,13	13
Sugars	g	0	0	0
Protein	g	0	0	0
Salt	g	0	0	0
Vitamin A as: retinyl palmitate	µg RE* (IU)	125 (417)	250 (833)	25000 (83333)
Vitamin A as: beta-carotene	µg RE* (IU)	250 (833)	500 (1666)	50010 (166666)
Vitamin D3	µg	25 (1000)	50 (2000)	5000 (200000)
Vitamin E	mg (IU)	25 (38)	50 (75)	5034 (7500)
Vitamin K1	µg	1000	2000	200000

* RE = all trans retinol equivalent

Product information: DEKAs Plus liquid, food for special medical purposes. For the dietary management of patients with cystic fibrosis.

(NL FR) Also, for the dietary management of fat-soluble vitamin deficiency (D, E, K, A) due to malabsorption of hepatic origin with chronic cholestasis, of intestinal origin due to insufficient or ineffective mucosal surface for absorption, or of pancreatic origin with exocrine insufficiency.

DEKAs Plus is a multivitamin and mineral supplement that contains higher amounts of fat-soluble vitamins. DEKAs Plus utilizes a clinically tested delivery technology to enhance absorption of fat-soluble vitamins and nutrients.

Important notice: Use only under medical supervision. Unless medically advised, do not administer to children under 4 years of age. Not for parenteral use. Cannot be used as a sole source of nutrition. The product poses a health hazard if consumed by persons who do not have the disease (s), disorder(s) or medical conditions for which the product is intended. Use during pregnancy and/or combined use with anticoagulants only after consultation with a doctor. **Use and storage:** Do not use if the seal is broken or missing. Shake well before use. Keep out of reach of children. Store at room temperature. Refrigerate after opening. Use within 60 days of opening. **Recommended dosage:** 1 ml daily or as directed by a physician. Dosing should be guided by serum vitamin levels.

Allergens: none.

Ingredients: water, L-ascorbic acid, sodium-L- ascorbate, D-alpha-tocopheryl polyethylene glycol-1000 succinate, zinc gluconate, beta-carotene, D-alpha-tocopherol, antioxidant (tocopherol-rich extracts), nicotinamide, natural and artificial flavors, calcium D-pantothenate, sweetener (sucralose), coenzyme Q10, thiamin hydrochloride, riboflavin 5'- phosphate sodium, cholecalciferol, pyridoxine hydrochloride, retinyl palmitate, preservatives (potassium sorbate, sodium benzoate), phytomenadione, selenomethionine, D-biotin.

* RE = all trans retinol equivalent

Nutritional information			
contains 60 ml		1 ml	100 ml
Energy	kJ / kcal	4 / 1	400 / 100
Fat of which:	g	0	0
saturates	g	0	0
Carbohydrates of which:	g	0,3	22
Sugars	g	0	0
Protein	g	0,02	2
Salt	g	0,01	1
Vitamin A as: retinyl palmitate	µg RE* (IU)	225 (750)	22500 (75000)
Vitamin A as: beta-carotene	µg RE* (IU)	1500 (5001)	150030 (500100)
Vitamin C	mg	45	4500
Vitamin D3	µg (IU)	18,8 (750)	1875 (75000)
Vitamin E	mg (IU)	33,6 (50)	3355 (5000)
Vitamin K1	µg	500	50000
Vitamin B1 - Thiamine	mg	0,6	60
Vitamin B2 - Riboflavin	mg	0,6	60
Niacin	mg	6	600
Vitamin B6	mg	0,6	60
Biotin	µg	15	1500
Pantothenic Acid	mg	3	300
Zinc	mg	5	500
Selenium	µg	10	1000
Coenzyme Q10	mg	2	200

Product information: DEKAs Plus softgels, food for special medical purposes. For the dietary management of patients with cystic fibrosis.

(NL FR) Also, for the dietary management of fat-soluble vitamin deficiency (D, E, K, A) due to malabsorption of hepatic origin with chronic cholestasis, of intestinal origin due to insufficient or ineffective mucosal surface for absorption, or of pancreatic origin with exocrine insufficiency.

DEKAs Plus is a multivitamin and mineral supplement that contains higher amounts of fat-soluble vitamins. DEKAs Plus utilizes a clinically tested delivery technology to enhance absorption of fat-soluble vitamins and nutrients. **Important notice:** Use only under medical supervision. Cannot be used as a sole source of nutrition. Can be used above the age of 10 years. The product poses a health hazard if consumed by persons who do not have the disease (s), disorder(s) or medical conditions for which the product is intended. Use during pregnancy and/or combined use with anticoagulants only after consultation with a doctor. **Use and storage:** Do not use if the seal is broken or missing. Keep out of reach of children. Store at room temperature. **Recommended dosage:** Over age 10: 1-2 softgels per day as directed by a physician. Take with meals.

Allergens: none.

Ingredients: capsule (bovine gelatin, humectants: E422, E420; water, colorants: E150d; flavouring: ethylvanillin), medium chain triglycerides, D-alpha-tocopheryl polyethylene glycol-1000 succinate, antioxidant (tocopherol-rich extracts), sodium ascorbate, D-alpha-tocopherol, selenium enriched yeast / selenomethionine, beta-carotene, zinc sulphate, calcium D-pantothenate, nicotinamide, D-biotin, coenzyme Q10, cholecalciferol, pyridoxine hydrochloride, thiamin mononitrate, riboflavin, cyanocobalamin, retinyl palmitate, phytomenadione, folic acid.

* RE = all trans retinol equivalent

Nutritional information			
contains 60 softgels		1 capsule	100 g
Energy	kJ / kcal	20 / 5	2090 / 500
Fat of which:	g	0,5	43
saturates	g	0,4	36
Carbohydrates of which:	g	0,3	22
Sugars	g	<0,1	<0,1
Protein	g	0,3	25
Salt	g	<0,1	1,0
Vitamin A as: retinyl palmitate	µg RE* (IU)	450 (1500)	37500 (125000)
Vitamin A as: beta-carotene	µg RE* (IU)	5000 (16667)	416665 (1388917)
Vitamin C	mg	75	6250
Vitamin D3	µg (IU)	75 (3000)	6250 (250001)
Vitamin E	mg (IU)	101 (150)	8389 (12500)
Vitamin K1	µg	1000	88333
Vitamin B1 - Thiamine	mg	1,5	125
Vitamin B2 - Riboflavin	mg	1,7	142
Niacin	mg	10	833
Vitamin B6	mg	1,9	158
Folic acid	µg	200	16668
Vitamin B12	µg	12	1000
Biotin	µg	100	8333
Pantothenic Acid	mg	12	1000
Zinc	mg	10	833
Selenium	µg	75	6250
Coenzyme Q10	mg	10	833

Product information: DEKAs Essential capsules, food for special medical purposes. For the dietary management of patients with cystic fibrosis.

NL FR Also, for the dietary management of fat-soluble vitamin deficiency (D, E, K, A) due to malabsorption of hepatic origin with chronic cholestasis, of intestinal origin due to insufficient or ineffective mucosal surface for absorption, or of pancreatic origin with exocrine insufficiency.

DEKAs Essential capsules are a multivitamin supplement that contain higher amounts of fat-soluble vitamins. DEKAs Essential capsules utilize a clinically tested delivery technology to enhance absorption of fat-soluble vitamins and nutrients. **Important notice:** Use only under medical supervision. Cannot be used as a sole source of nutrition. Can be used from the age of 4 years. The product poses a health hazard if consumed by persons who do not have the disease (s), disorder(s) or medical conditions for which the product is intended. Use during pregnancy and/or combined use with anticoagulants only after consultation with a doctor. **Use and storage:** Do not use if the seal is broken or missing. Keep out of reach of children. Store at room temperature. **Recommended dosage:** Age 4 to 10 years: 1 capsule daily or as directed by physician. Over age 10: 1-2 capsules per day as directed by a physician. Dosing should be guided by serum vitamin levels. Take with meals.

Ingredients: D-alpha-tocopheryl polyethylene glycol-1000 succinate (TPGS), D-alpha-tocopherol, capsule (tilapia **fish gelatin**, water), beta-carotene, cholecalciferol, phytomenadione, retinyl palmitate.

Nutritional information			
contains 60 capsules		1 capsule	100 g
Energy	kJ / kcal	8 / 2	2642 / 631
Fat of which:	g	0	49
saturates	g	0	36
Carbohydrates of which:	g	0	50
Sugars	g	0	0
Protein	g	0	0
Salt	g	0	0
Vitamin A as: retinyl palmitate	µg RE* (IU)	150 (500)	55350 (184500)
Vitamin A as: beta-carotene	µg RE* (IU)	450 (1500)	166050 (553500)
Vitamin D3	µg	50 (2000)	18450 (738000)
Vitamin E	mg (IU)	101 (150)	37269 (55350)
Vitamin K1	µg	1000	369000

* RE = all trans retinol equivalent

Product information: DEKAs Plus chewable tablets, food for special medical purposes. For the dietary management of patients with cystic fibrosis.

NL FR Also, for the dietary management of fat-soluble vitamin deficiency (D, E, K, A) due to malabsorption of hepatic origin with chronic cholestasis, of intestinal origin due to insufficient or ineffective mucosal surface for absorption, or of pancreatic origin with exocrine insufficiency.

DEKAs Plus is a multivitamin and mineral supplement that contains higher amounts of fat-soluble vitamins. DEKAs Plus utilizes a clinically tested delivery technology to enhance absorption of fat-soluble vitamins and nutrients. **Important notice:** Use only under medical supervision. Cannot be used as a sole source of nutrition. Can be used from the age of 4 years. The product poses a health hazard if consumed by persons who do not have the disease (s), disorder(s) or medical conditions for which the product is intended. Use during pregnancy and/or combined use with anticoagulants only after consultation with a doctor. **Use and storage:** Do not use if the seal is broken or missing. Keep out of reach of children. Store at room temperature. **Recommended dosage:** Age 4 to 10 years: 1 chewable tablet daily or as directed by physician. Over age 10: 1-2 chewable tablets per day as directed by a physician. Dosing should be guided by serum vitamin levels. Take with meals. **Allergens:** none.

Ingredients: sugar, dextrose, natural flavors, sodium-L-ascorbate, sweetener (sorbitol), bulking agent (hydroxypropylcellulose), beta-carotene, D-alpha-tocopheryl acid succinate, anticaking agent (calcium silicate, maltodextrin), flavor (citric acid), zinc bisglycinate, nicotinamide, cholecalciferol, phytomenadione, D-alpha-tocopheryl polyethylene glycol-1000 succinate (TPGS), calcium D-pantothenate, anti-caking agent (magnesium stearate), D-biotin, coenzyme Q10, pyridoxine hydrochloride, retinyl palmitate, sodium selenite, thiamin mononitrate, riboflavin, sweetener (sucralose), anti-caking agent (silicon dioxide), cyanocobalamin, antioxidant (mixed tocopherols), folic acid.

Nutritional information			
contains 60 chewable tablets		1 chewable tablet	100 g
Energy	kJ / kcal	48 / 12	1577 / 377
Fat of which:	g	0	1,8
saturates	g	0	1,6
Carbohydrates of which:	g	2,7	88
Sugars	g	2,1	70
Protein	g	0	2,5
Salt	g	0,01	0,42
Vitamin A as: retinyl palmitate	µg RE* (IU)	450 (1500)	14754 (49180)
Vitamin A as: beta-carotene	µg RE* (IU)	5000 (16667)	163933 (546455)
Vitamin C	mg	70	2295
Vitamin D3	µg (IU)	50 (2000)	1639 (65574)
Vitamin E	mg (IU)	67 (100)	2197 (3279)
Vitamin K1	µg	1000	32787
Vitamin B1 - Thiamine	mg	1,5	49
Vitamin B2 - Riboflavin	mg	1,7	56
Niacin	mg	10	328
Vitamin B6	mg	1,9	62
Folic acid	µg	200	6557
Vitamin B12	µg	12	393
Biotin	µg	100	3279
Pantothenic Acid	mg	12	393
Zinc	mg	10	328
Selenium	µg	75	2459
Coenzyme Q10	mg	10	328

* RE = all trans retinol equivalent

DEKAs* availability and contacts

Where	Who	Contact
Europe Africa	Roberto Jongejan, MD, PhD	info@dekasvitamins.com ☎ +31 6 21255794
France	Roberto Jongejan, MD, PhD (via call center)	commandes-DEKAs@portail-pharma.com ☎ 09 72 40 89 11 📠 0806 110 434
UK	Simon Deck	sdeck@dekasvitamins.com ☎ +44 7879 427173
Germany	Dr. med. Dirk Krause	dkrause@dekasvitamins.com ☎ +49 174 4440440
Italy	PIAM Farmaceutici S.p.A.	info@piamfarmaceutici.com ☎ +39 010518621
Americas	Callion Pharma	contact@callionpharma.com ☎ +1 423-930-9243
Other/All	Callion Pharma	contact@callionpharma.com ☎ +1 423-930-9243

* DEKAs is a registered trademark of Callion Pharma.

Webshop

DEKAsvitamins.com

Available in English, German, French and Spanish. The shop ships to over 22 countries.



Download

this brochure in English
or other languages.



Distribution



Alveolus Biomedical B.V.,
Platolaan 71, 3707 GD Zeist, NL.
www.dekasvitamins.com

Manufactured in the USA for



232 Presidential Drive, Suite 7
Jonesborough, TN 37659 USA
www.callionpharma.com

DEKAsvitamins.com

How to comply with the **latest CF dietary** guide-
lines^a using **DEKAs** - Food for Special Medical Purposes

Infants 0-12 months

VITAMIN	ESPEN-ESPHGAN-ECFS guidelines (2024) ^a	DEKAs Essential 0,5 ml	DEKAs Plus 1 ml
D	400-1000 IU/day	1000 IU	750 IU
E	50 IU/day	37,5 IU (25mg)	50 IU (33 mg)
K	0,3-1,0 mg/day	1,0 mg	0,5 mg
A	Adapt to serum levels*	1250 IU** β-carotene 67%	5751 IU** β-carotene 87%

Children 1-3 years of age

VITAMIN	ESPEN-ESPHGAN-ECFS guidelines (2024) ^a	DEKAs Essential 1 ml	DEKAs Plus 2 ml
D	800-2000 IU/day	2000 IU	1500 IU
E	100-400 IU/day	75 IU (50mg)	100 IU (67mg)
K	1-10 mg/day	2 mg	1 mg
A	Adapt to serum levels*	2500 IU** β-carotene 67%	11502 IU** β-carotene 87%

Children 4-10 years of age

VITAMIN	ESPEN-ESPHGAN-ECFS guidelines (2024) ^a	DEKAs Plus 2 ml	DEKAs Essential 2 ml	DEKAs Essential 1 capsule	DEKAs Plus 1 chewable
D	800-2000 IU/day	1500 IU	4000 IU***	2000 IU	2000 IU
E	100-400 IU/day	100 IU (67mg)	150 IU (101mg)	150 IU (101mg)	100 IU (67mg)
K	1-10 mg/day	1 mg	4 mg	1 mg	1 mg
A	Adapt to serum levels*	11500 IU** β-carotene 87%	5000 IU** β-carotene 67%	2000 IU** β-carotene 75%	18167 IU** β-carotene 92%

Children over 10 years of age and adults

VITAMIN	ESPEN-ESPHGAN-ECFS guidelines (2024) ^a	DEKAs Essential 1-2 capsules	DEKAs Plus 1 chewable	DEKAs Plus 1 softgel	1 DEKAs Plus + 1 DEKAs Essential caps
D	800-4000 IU/day	2000-4000 IU	2000 IU	3000 IU	5000 IU
E	100-400 IU/ day	150-300 IU	100 IU (67 mg)	150 IU (101 mg)	300 IU (200 mg)
K	1-10 mg/ day	1-2 mg	1 mg	1 mg	2 mg
A	Adapt to serum levels*	2000-4000 IU** β-carotene 75%	18167 IU** β-carotene 92%	18167 IU** β-carotene 92%	20167 IU** β-carotene 84%

*Up to 16667 IU/day. Start low and adapt to serum levels or use β-carotene as the main source of vitamin A.

** β-carotene is a precursor to vitamin A and is converted by the body to vitamin A as needed. No risk of hypervitaminosis A. DEKAs Plus products also contain vitamins B, C zinc and selenium.

*** Vitamin D dose of 1000 - 5000 IU/day according to Sermet-Gaudelus I, et al., European cystic fibrosis bone mineralisation guidelines. J Cyst Fibros 2011;10(2):S16-23

Distribution



Alveolus Biomedical B.V.,
Platolaan 71, 3707 GD Zeist, NL.
www.dekasvitamins.com

Manufactured in the USA for



232 Presidential Drive, Suite 7
Jonesborough, TN 37659 USA
www.callionpharma.com