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Product Portfolio Nutrition Ingredients Human Nutrition

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Product	Form	Additional Information ¹	Application ²			Product Number (PRD No.)	Packaging Size (kg)	Article Number (ART No.)	Vegetarian ³	Kosher	Halal	Allergen free ⁴	Gluten free ⁵	Plant-based ⁸	Naturally-derived ⁹
			DS	Functional Nutrition	Colorant										
Vitamin A															
Dry Vitamin A-Acetate 500, 60 Mesh	Powder	500,000 IU vitamin A per gram, 60 mesh, with gelatin, BHT stabilized				30041011	25	50050523				✓	✓		
Dry Vitamin A-Acetate 500, 40 Mesh	Powder	500,000 IU vitamin A per gram, 40 mesh, with gelatin, BHT stabilized				30041009	25	50050735				✓	✓		
Dry Vitamin A-Acetate 325 GFP*	Powder	325,000 IU vitamin A per gram, with acacia gum, Toc. stabilized				30056973	25	50051212	✓	✓	✓	✓	✓		
Dry Vitamin A-Acetate 325 GFP/E	Powder	325,000 IU vitamin A per gram, with acacia gum, Toc. stabilized				30253192	25	50491815	✓	✓	✓	✓	✓		
Dry Vitamin A-Palmitate 250 CP CWD	Powder	250,000 IU vitamin A per gram, with modified starch, Toc. Stabilized				30749765	25	50683290	✓	✓	✓	✓	✓		
Dry Vitamin A-Palmitate 250 FP CWD	Powder	250,000 IU vitamin A per gram, with modified starch, Toc. Stabilized				30750170	25	50686289	✓	✓	✓	✓	✓		
Vitamin A-Acetate 2.8 Mio IU/g unstabilized	Oil	2.8 million IU vitamin A per gram, unstabilized				30041023	50	50096568	✓	✓	✓	✓	✓		
Vitamin A-Acetate 1.5 Mio IU/g stabilized with BHT	Oil	1.5 million IU vitamin A per gram, BHT stabilized				30041021	4 x 5	50563945	✓	✓	✓	✓	✓		
Vitamin A-Palmitate 1.7 Mio IU/g unstabilized*	Oil	1.7 million IU vitamin A per gram, unstabilized				30041032	4 x 5 25	50563942 55857164	✓	✓	✓	✓	✓		
Vitamin A-Palmitate 1.7 Mio IU/g stabilized with Tocopherol*	Oil	1.7 million IU vitamin A per gram, Toc. stabilized				30041031	4 x 5 25	50563952 55800242	✓	✓	✓	✓	✓		
Vitamin A-Palmitate 1.0 Mio IU/g stabilized with Tocopherol*	Oil	1.0 million IU vitamin A per gram, Toc stabilized				30041043	4 x 5 25	50563949 55856634	✓	✓	✓	✓	✓		
Vitamin-A-Propionate 2.5 Mio IU/g stabilized with BHT	Oil	2.5 million IU vitamin A per gram, BHT stabilized				30636556	25	50431749	✓	✓	✓	✓	✓		
Oily Vitamin Blend 02-185	Oil	1.0 million IU vitamin A and 100,000 IU vitamin D ₃ per gram, Toc. stabilized				30082219	4 x 5	50563955	✓	✓	✓	✓	✓		
Vitamin B															
Riboflavin Fine Powder (FP)	Powder	Vitamin B ₂ with fine particle size			✓	30519560	10 25	50174430 50174226	✓	✓	✓	✓	✓		✓
Riboflavin High Flow 100 (HF)	Powder	Vitamin B ₂ with better flowability			✓	30519563	10 25	50175051 50175050	✓	✓	✓	✓	✓		✓
Calcium D-Pantothenate	Powder	Vitamin B ₅ , crystalline				30041195	25	50011091	✓	✓	✓	✓	✓		
Vitamin B ₁₂ 0.1% SD*	Powder	0.1% cyanocobalamin, with maltodextrin				30508686	20	50494235	✓	✓	✓	✓	✓		✓
Vitamin B ₁₂ 1% SD*	Powder	1% cyanocobalamin, with maltodextrin				30508688	20	50494653	✓	✓	✓	✓	✓		✓
Dry Vitamin B ₁₂ 0.1% GFP	Powder	0.1% cyanocobalamin, with maltodextrin				30663190	20	50493508	✓	✓	✓	✓	✓		✓
Dry Vitamin B ₁₂ 1% GFP	Powder	1% cyanocobalamin, with maltodextrin				30662841	20	50494233	✓	✓	✓	✓	✓		✓

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			DS	Functional Nutrition	Colorant										
Vitamin D															
Vitamin D ₃ 1.0 Mio IU/g*	Oil	1.0 million IU cholecalciferol per gram, in MCT oil, Toc. stabilized				30070969	4 x 5	50563957	✓	✓	✓	✓	✓		
Dry Vitamin D ₃ 100	Powder	100,000 IU cholecalciferol per gram, with gelatin, BHT stabilized				30067769	25	50144186				✓	✓		
Dry Vitamin D ₃ 100 GFP*	Powder	100,000 IU cholecalciferol per gram, with acacia gum, Toc. stabilized				30053529	25	50051636	✓	✓	✓	✓	✓		
Dry Vitamin D ₃ 100 GFP HP	Powder	100,000 IU cholecalciferol per gram, with acacia gum, Toc. stabilized High potency (Sold in North America only)				30208576	25	53763345	✓	✓	✓	✓	✓		
Dry Vitamin D ₃ 100 HP	Powder	100,000 IU cholecalciferol per gram, with gelatin, modified starch, BHT stabilized High potency (Sold in North America only)				30204226	25	53151552				✓	✓		
Vitamin E															
DL-alpha Tocopherol (synthetic)															
DL-alpha-Tocopherol	Oil	DL-alpha-tocopherol				30054571	4 x 5 25 900	50563943 55434224 53872051	✓	✓	✓	✓	✓		
Vitamin E Acetate 98% ¹¹	Oil	Vitamin E acetate (DL-alpha-Tocopheryl Acetate)				30574840	4 x 5 25 190 900	50628376 50315393 50322196 50322195	✓	✓	✓	✓	✓		
Vitamin E Acetate Pharma ¹⁰	Oil	Vitamin E acetate (DL-alpha-Tocopheryl Acetate)				30777580	4 x 5 25 190 900	50748656 50731401 50731350 50748639	✓	✓	✓	✓	✓		
Dry Vitamin E-Acetate 50% DC/GFP	Powder	50% vitamin E acetate, with modified starch				30253144	25	50486886	✓	✓	✓	✓	✓		
Vitamin E 500 BG*	Powder	50% vitamin E acetate, with modified starch				30176617	25	57311006	✓	✓	✓	✓	✓		
Vitamin E 500 FG*	Powder	50% vitamin E acetate, with modified starch				30079657	25	52807491	✓	✓	✓	✓	✓		
Vitamin K															
Dry Vitamin K ₁ 1% GFP*	Powder	1% phytomenadione, with acacia gum				30041016	25	50052166	✓	✓	✓	✓	✓		
Dry Vitamin K ₁ 5% GFP*	Powder	5% phytomenadione, with acacia gum				30041002	25	50052325	✓	✓	✓	✓	✓		
Carotenoids															
Apocarotenal															
Apocarotinal Dispersion 20 MCT	Oil	20% apocarotenal, dispersion in MCT oil			✓	30078425	4 x 5	50508476	✓	✓	✓	✓	✓		

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			DS	Functional Nutrition	Colorant										
Beta-Carotene															
Beta-Carotene 20% GFP	Powder	20% beta-carotene, with modified starch				30796312	25	50775315	✓	✓	✓	✓	✓		
Beta-Carotene 20% CWD/R	Powder	20% beta-carotene, with modified starch			✓	30283190	25	53387788	✓	✓	✓	✓	✓		
Lucarotin® 1 CWD/Y	Powder	1% beta-carotene, with modified starch			✓	30249105	2 x 5 20	50219030 52574132	✓	✓	✓	✓	✓		
Lucarotin® 10 CWD/O PLUS	Powder	10% beta-carotene, with modified starch			✓	30619543	2 x 5 20	50487209 50400864	✓	✓	✓	✓	✓		
Lucarotin® 30 M	Oil	30% beta-carotene, dispersion in corn oil			✓	30041157	4 x 5 8 x 2 20	50508479 50508480 50562200	✓	✓	✓	✓	✓		
Lucarotin® 30 SUN	Oil	30% beta-carotene, dispersion in sunflower oil			✓	30085626	4 x 5 8 x 2 20	50507836 50507851 50562306	✓	✓	✓	✓	✓		
Lucarotin® 30 MCT	Oil	30% beta-carotene, dispersion in medium chain triglycerides oil			✓	30593736	20	50355369	✓	✓	✓	✓	✓		
Fermented Beta-Carotene, from <i>Blakeslea trispora</i>															
Lucarotin® B 1 CWD/Y	Powder	1% fermented beta-carotene, with modified starch			✓	30696909	2 x 5	50571891	✓	✓	✓	✓	✓		✓
Lucarotin® B 10 CWD/O PLUS	Powder	10% fermented beta-carotene, with modified starch			✓	30704003	2 x 5	50583841	✓	✓	✓	✓	✓		✓
Lucarotin® B 30 SUN	Oil	30% fermented beta-carotene, dispersion in sunflower oil			✓	30678628	4 x 5 600	50527798 50527693	✓	✓	✓	✓	✓		✓
Mixed carotenoids, from <i>Dunaliella salina</i>															
Betatene 1% CWD N	Powder	1% mixed carotenoids, cold water dispersible powder with acacia gum			✓	30528283	2 x 5	50336934	✓	✓	✓	✓	✓	✓	✓
Betatene 20% OLV	Oil	20% mixed carotenoids, suspension in olive oil				30528286	10	50297753	✓	✓	✓	✓	✓	✓	✓
Betatene 30% OLV	Oil	30% mixed carotenoids, suspension in olive oil				30528307	10	50297754	✓	✓	✓	✓	✓	✓	✓
Betatene 20% SOY ⁶	Oil	20% mixed carotenoids, suspension in soybean oil				30528140	10	50297609	✓	✓	✓	✓	✓	✓	✓
Betatene 30% SOY ⁶	Oil	30% mixed carotenoids, suspension in soybean oil				30528275	10	50297752	✓	✓	✓	✓	✓	✓	✓
Dunaliella Salina Extract	Oil	8% mixed carotenoids, suspension in soybean oil			✓	30670488	10	50508170	✓	✓	✓	✓	✓	✓	✓
30% Natural Betacarotene SFO	Oil	30% mixed carotenoids, suspension in sunflower oil			✓	30543553	10	50297760	✓	✓	✓	✓	✓	✓	✓
30% Natural Beta-carotene in MCT Oil	Oil	30% mixed carotenoids, suspension in MCT oil			✓	30535547	10	50288096	✓	✓	✓	✓	✓	✓	✓
30% Natural Beta-carotene in Olive Oil	Oil	30% mixed carotenoids, suspension in olive oil			✓	30531352	10 900	50297608 50515893	✓	✓	✓	✓	✓	✓	✓
30% Natural Beta-carotene in Soybean Oil ⁶	Oil	30% mixed carotenoids, suspension in soybean oil			✓	30531354	10	50297755	✓	✓	✓	✓	✓	✓	✓

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			DS	Functional Nutrition	Colorant										
Lycopene															
LycoVit 10 CWD/S*	Powder	10% lycopene, with modified starch			✓	30276090	2 x 5	52753643	✓	✓	✓	✓	✓		
LycoVit Dispersion 10%	Oil	10% lycopene, dispersion in sunflower oil			✓	30264388	4 x 5	50508513	✓	✓	✓	✓	✓		
LycoVit 10% DC	Powder	10% lycopene, with gelatin				30075276	25	50825236				✓	✓		
Lutein															
Lutein 5% DC	Powder	5% free lutein, with gelatin				30267108	25	51843209				✓	✓	✓	✓
Lutein 20% SAF	Oil	20% free lutein, suspension in safflower oil			✓	30683669	10	50544889	✓	✓	✓	✓	✓	✓	✓
Xangold 10% CWD NH	Powder	10% lutein ester, with fish gelatin			✓	30695676	25	50570663				✓ ⁷	✓	✓	
Xangold 15% ⁶	Oil	15% lutein ester, suspension in soybean oil				30528305	10	50241145	✓	✓	✓	✓	✓	✓	✓
Xangold 15% OLV EU	Oil	15% lutein ester derived from organic marigold flowers, suspension in olive oil				30600259	10	50369090	✓	✓	✓	✓	✓	✓	✓
Xangold 30% OLV EU	Oil	30% lutein ester, suspension in olive oil				30600954	10	50369645	✓	✓	✓	✓	✓	✓	✓
Omega-3s															
Omega Oil 1812 TG Gold	Oil	Fish oil, min. 30% Omega-3				30634620	25 190	50428511 50428512			✓		✓		✓
Omega Oil 0525 TG Gold	Oil	Tuna oil, min. 30% Omega-3, DHA rich				30634621	25 190	50428513 50428514			✓		✓		✓
DHA Algal Oil	Oil	Algal oil (oil from the micro-algae <i>Schizochytrium sp.</i>); min. 380 mg/g DHA				30599327	25 190	50375580 50375579	✓	✓	✓	✓	✓	✓	✓
Omega-6s															
ARA Oil Gold	Oil	Arachidonic acid oil (from fungal strain <i>Mortierella alpina</i>), min. 400 mg/g ARA				30726000	25 190	50627968 50627967	✓	✓	✓	✓	✓		✓
Beverage Stabilizers															
Divergan F	Powder	Single-use PVPP stabilizer				30034969	20	50116237	✓	✓	✓	✓	✓		
Divergan RS	Powder	Regenerable PVPP stabilizer				30034968	20	50116236	✓	✓	✓	✓	✓		






Abbreviations	
BG	Beverage grade
CWD/WDP	Cold-water dispersible/water dispersible product
DC	Direct compressible
EE	Ethyl ester
FG	Food grade
GFB	Gelatin-free beadlet
GFP	Gelatin-free product
IU	International Units
TE	Tocopherol equivalent
F/O	Fish gelatin/orange
/O	Orange
/R	Red
/Y	Yellow

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*Universal formula: This product can be marketed universally in all major countries and for multiple applications. In addition, the product meets all of the following criteria: vegetarian, kosher, halal, non-GMO labeling, allergen free, gluten free.

1. Product details including minimum content of active substance as well as relevant information to product composition, features, properties and use.
2. Major application based on our experience. Other applications may be possible.
3. Suitable for a vegetarian diet; no animal products are added, except for some products that may contain dairy ingredients (e.g. caseinate, lactose) or vitamin D₃, which is produced from wool grease.
4. No labeling requirements with regard to allergens according to regulation (EU) No 1169/2011 (as amended) and the US Food Allergen Labeling and Consumer Protection Act (FALCPA).
5. No ingredients used containing gluten. However, products are not explicitly tested on gluten.
6. PCR-negative, derived from genetically modified vegetable oil.
7. Contain fish gelatin, which requires labeling according to the US Food Allergen Labeling and Consumer Protection Act (FALCPA)
8. Main / active ingredient originating from plants (including vegetables, fruits, whole grains, nuts, seeds, mushrooms and algae). May contain formulation ingredients not from plants.
9. Main / active ingredient originating from natural materials. May contain formulation ingredients not matching "natural" definition.
10. Vitamin E Acetate Pharma and DL-alpha-Tocopherol is marketed as API in all countries in which regulatory EU documentation (CEP, ASMF) is accepted; a US drug master file is not available.
11. For your applications requiring pharma documentation (e.g., GMP certificate, ASMF and CEP), please refer to our pharma grade product "Vitamin E Acetate Pharma".

Note: National regulations may vary and need to be considered prior to product use.

	Dietary supplements
	Beverages
	Food
	Staple food fortification
	Infant nutrition