

Quality and purity where it matters most.

Ingredients that meet the highest demands of
enteral nutrition and infant formula.



Nutrients you can rely on

Quality and purity are paramount in the production of both enteral nutrition products and infant formula. Here at Merck Millipore, we have created a comprehensive product portfolio to meet all your needs in both fields. When it comes to long-term enteral nutrition of hospital patients with compromised health, the nutrients they receive must not contain impurities that could weaken them further – especially as patients receive mineral salts and amino acids in relatively high amounts. Our mineral salts distinguish themselves by a low heavy-metal content. This also makes them especially suitable for producing high-end infant formula, as the raw materials used in their production are decisive to the quality of the end product. What's more, our regulatory expertise and EMPROVE® documentation can help you simplify supplier qualification and reduces costs.

Benefits:

- High-quality products
- Low heavy-metal content
- Most products come with EMPROVE® documentation
- Regulatory support

Speed up approval preparation with our EMPROVE® dossiers

Most of our nutrients are backed up by EMPROVE® dossiers, providing you with unparalleled regulatory support and ready-to-use documentation. EMPROVE® documentation lets you simplify your processes, so you can speed up approval preparation and get your products to market faster.

Visit www.merckmillipore.com/emprove for more information.



Tailored to your needs

All ingredients are available in standard packaging as well as pre-packs, ranging in size from grams up to tons. Packaging can also be customized according to your needs. Our portfolio, documentation, and flexibility make us a first-choice supplier of raw materials for the manufacture of enteral nutrition products. Further benefits to customers include optional pre-mixture production in GMP-compliant facilities and tailored raw material production using process-optimized quantities and container sizes.

Amino Acids

102836	L-Cystine extra pure FCC
102735	L-Cysteine hydrochloride monohydrate, suitable for use as excipient EMPROVE® exp Ph Eur, USP
104352	L-Histidine, suitable for use as excipient EMPROVE® exp Ph Eur, USP
104354	L-Histidine monohydrochloride monohydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP
105357	L-Isoleucine, suitable for use as excipient EMPROVE® exp Ph Eur, USP
105020	L-Leucine, suitable for use as excipient EMPROVE® exp Ph Eur, USP
105701	L-Lysine monohydrochloride, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
107267	L-Phenylalanine, suitable for use as excipient EMPROVE® exp Ph Eur, USP
108396	L-Tryptophan, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
108378	L-Tyrosine, suitable for use as excipient EMPROVE® exp Ph Eur, USP

Calcium

102304	Calcium acetate hydrate extra pure DAC, FCC
112120	Calcium carbonate precipitated ($\leq 0.0001\%$ Al), suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, JP, FCC, E 170
102064	Calcium carbonate precipitated ($\leq 0.002\%$ Fe) EMPROVE® Ph Eur, BP, USP, JP, FCC
142000	Calcium chloride dihydrate EMPROVE® Ph Eur, BP, JP, USP, FCC, E 509
102092	tri-Calcium dicitrate tetrahydrate, suitable for use as excipient EMPROVE® exp DAC, USP, E 333, FCC
102094	Calcium gluconate monohydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 578
104112	Calcium glycerophosphate hydrate extra pure EMPROVE® exp Ph Eur, FCC
102146	Calcium hydrogen phosphate dihydrate extra fine powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 341
102304	Calcium hydrogen phosphate anhydrous extra fine powder, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 341
102119	Calcium hydroxide precipitated ($\leq 0.0005\%$ Al), suitable for use as excipient EMPROVE® exp USP, FCC, E 526
102102	Calcium lactate pentahydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 327
102143	Calcium phosphate dried, suitable for use as excipient EMPROVE® exp Ph Eur, BP, E 341
102148	Calcium D-saccharate, suitable for use as excipient EMPROVE® exp USP
102160	Calcium sulfate dihydrate precipitated, suitable for use as excipient EMPROVE® exp Ph Eur, BP, E 516

Copper

102792	Copper(II) sulfate anhydrous, suitable for use as excipient EMPROVE® exp Ph Eur, BP
102787	Copper(II) sulfate pentahydrate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
202788	Copper(II) sulfate pentahydrate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP

Iodine

105040	Potassium iodide, suitable for use as active pharmaceutical ingredient EMPROVE® api Ph Eur, BP, JP, USP
105050	Potassium iodate extra pure FCC
106520	Sodium iodide, suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP

Iron

103761	Ammonium iron(III) citrate approx. 28% Fe DAC
103815	Iron extra pure reduced particle size about 10 µm
103962	Iron(II) fumarate extra pure (ca. 33% Fe) Ph Eur, BP, USP, FCC
103868	Iron(II) gluconate dihydrate Ph Eur, BP, USP, E 579
103963	Iron(II) sulfate heptahydrate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC
103967	Iron(II) sulfate hydrate (about 87% FeSO ₄) extra pure Ph Eur, BP, USP

Magnesium

105832	Magnesium chloride hexahydrate cryst. EMPROVE® Ph Eur, BP, USP, FCC, E 511
105829	Magnesium hydroxide carbonate heavy extra pure Ph Eur, BP, USP, E 504
105828	Magnesium hydroxide carbonate light extra pure Ph Eur, BP, USP
105870	Magnesium hydroxide extra pure Ph Eur, BP, USP
105872	Magnesium hydrogen phosphate trihydrate, suitable for use as excipient EMPROVE® exp DAB
105867	Magnesium oxide heavy, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
105862	Magnesium oxide light extra pure Ph Eur, BP, E 530
105882	Magnesium sulfate heptahydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, JP
105885	Magnesium sulfate hydrate, suitable for use as excipient EMPROVE® exp DAC
102440	Parateck® Mg DC (Magnesium hydroxide carbonate) heavy, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 504

Manganese

105999	Manganese(II) sulfate monohydrate spray dried, suitable for use as excipient EMPROVE® exp Ph Eur, USP, FCC
--------	--

Potassium

104924	Potassium carbonate, suitable for use as excipient EMPROVE® exp Ph Eur, USP, E 501
104935	Potassium chloride, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 508
104956	tri-Potassium citrate monohydrate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 332
104871	Potassium dihydrogen phosphate cryst., suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, E 340
104852	Potassium hydrogen carbonate, suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, FCC, E 501
105101	di-Potassium hydrogen phosphate anhydrous, suitable for use as excipient EMPROVE® exp Ph Eur, BP, E 340

Ord. No.	Product
105032	Potassium hydroxide pellets , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, NF, FCC, E 525
105050	Potassium sulfate cryst. , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP
105051	Potassium sulfate powder , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, E 515

Sodium

106281	Sodium acetate anhydrous extra pure USP, FCC, E 262
106265	Sodium acetate trihydrate extra pure Ph Eur, BP, JP, USP, FCC, E 262
106398	Sodium carbonate anhydrous , suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF
106384	Sodium carbonate decahydrate , suitable for use as excipient EMPROVE® exp Ph Eur, BP, E 500
106386	Sodium carbonate monohydrate , suitable for use as excipient EMPROVE® exp Ph Eur, BP, NF, E 500
106400	Sodium chloride , suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
116224	Sodium chloride low in endotoxins , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP
106431	tri-Sodium citrate 5,5-hydrate , suitable for use as excipient EMPROVE® exp FU VIII, E 331
111037	tri-Sodium citrate anhydrous , suitable for use as excipient EMPROVE® exp USP, FCC, E 331
106432	tri-Sodium citrate dihydrate cryst. , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 331
106446	tri-Sodium citrate dihydrate powder , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, E 331
106345	Sodium dihydrogen phosphate dihydrate , suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, JPE, FCC, E 339
106323	Sodium hydrogen carbonate , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, FCC, E 500
106585	di-Sodium hydrogen phosphate anhydrous , suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP, E 339
106576	di-Sodium hydrogen phosphate dihydrate , suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
106573	di-Sodium hydrogen phosphate dodecahydrate cryst. , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP
106574	di-Sodium hydrogen phosphate heptahydrate , suitable for use as excipient EMPROVE® exp DAC, USP
106482	Sodium hydroxide pellets , suitable for use as excipient EMPROVE® exp Ph Eur, BP, FCC, JP, NF, E 524
106522	Sodium-(S)-lactate-solution about 50 % , suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
106577	tri-Sodium phosphate dodecahydrate , suitable for use as excipient EMPROVE® exp NF, E 339
104646	Sodium phosphinate monohydrate (sodium hypophosphite monohydrate) , suitable for use as excipient EMPROVE® exp DAC

Zinc

108800	Zinc acetate dihydrate extra pure Ph Eur, USP
108815	Zinc chloride , suitable for use as active pharmaceutical ingredient EMPROVE® api Ph Eur, BP, USP
108846	Zinc oxide , suitable for use as excipient EMPROVE® exp Ph Eur, BP, USP
108881	Zinc sulfate heptahydrate , suitable for use as excipient EMPROVE® exp Ph Eur, BP, JP, USP, FCC
108882	Zinc sulfate monohydrate , suitable for use as excipient EMPROVE® exp USP

Samples in small package sizes available upon request.

The typical technical data above serve to generally characterize the product. These values are not meant as specifications and they do not have binding character. The product specification is available separately, from the website: www.merckmillipore.com

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

For more information and documentation please contact:

Phone: +49 6151-72 0

Email: pcs.salessupportEU@merckgroup.com

www.merckmillipore.com/formulation



Merck Millipore
Merck KGaA
Frankfurter Str. 250
64293 Darmstadt, Germany

www.merckmillipore.com

Merck Millipore, the M mark, Parteck and EMPROVE are registered trademarks of Merck KGaA, Darmstadt, Germany.
© 2014 Merck KGaA, Darmstadt, Germany. All rights reserved.