

Direct Liquid Magnesium Gel

Direct liquid magnesium gel designed to recharge energy

- Innovative stable formulation supporting the rapid absorption of magnesium in the body for healthy muscle function
- Highly concentrated magnesium liquid product with unique fruity taste
- Can be used with and without dilution in water
- Easy to take - anytime, anywhere



Direct Liquid Magnesium Gel



DIRECT LIQUID MAGNESIUM GEL ORANGE PINEAPPLE BATCH: EP23-1/1					
CATEGORY	INGREDIENTS	% BY WEIGHT	TRADE NAME	FUNCTION	SUPPLIER
Active	TriMagnesium Citrate Anhydrous	7.81%	TMC	Active	Jungbunzlauer
Excipient	Glycerin 99.7%	10.00%	Glycerin VEG 99.7%	Stabilizer	Univar Solutions
Excipient	Lactic Acid 80%	6.00%	Lactic Acid 80%	pH Adjustment	Jungbunzlauer
Excipient	Orange Flavor	1.50%	Orange Flavor	Flavor	Univar Solutions
Excipient	Pineapple Flavor	2.00%	Pineapple Flavor	Flavor	Univar Solutions
Excipient	Potassium Sorbate	0.30%	Potassium Sorbate	Preservative	Univar Solutions
Excipient	Sodium Benzoate	0.30%	Sodium Benzoate	Preservative	Univar Solutions
Excipient	Sweetener Blend	0.20%	Sweetener Blend	Taste Intensifier	Univar Solutions
Excipient	Bitter Masking Agent	0.20%	Bitter Masking Agent	Masking Agent	Univar Solutions
Excipient	Stevia	0.40%	Stevia Bio REB M 90	Sweetener	PureCircle™
Excipient	Xanthan Gum	0.50%	Xanthan Gum FCC	Thickener	Jungbunzlauer
Excipient	Water	70.79%	Water	Solubilizer	
TOTAL		100.00%			

MANUFACTURING	
1	Add xanthan gum to 25% of water slowly while stirring constantly with torque stirrer until fully dissolved. Ensure no presence of lumps and let swell for 4 hours
2	Dissolve potassium sorbate and sodium benzoate in 50% of water until achieving a clear solution. Add tri-magnesium citrate and stir until dissolved, clear, and transparent
3	Add glycerin to 25% of water while stirring. After dilution, add stevia, flavor, masking agent, and intensifier one-by-one while mixing until fully dissolved
4	Combine Phase 2 and Phase 3, then add mixture to Phase 1 while stirring
5	Add lactic acid and mix for 2 minutes to adjust pH to approximately 4.0

Jungbunzlauer



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Direct Liquid Magnesium Gel



DIRECT LIQUID MAGNESIUM GEL SOUR CHERRY BANANA BATCH: EP23-1/2					
CATEGORY	INGREDIENTS	% BY WEIGHT	TRADE NAME	FUNCTION	SUPPLIER
Active	TriMagnesium Citrate Anhydrous	7.81%	TMC	Active	Jungbunzlauer
Excipient	Glycerin 99.7%	10.00%	Glycerin VEG 99.7%	Stabilizer	Univar Solutions
Excipient	Lactic Acid 80%	6.00%	Lactic Acid 80%	pH Adjustment	Jungbunzlauer
Excipient	Banana Flavor	2.00%	Banana Flavor	Flavor	Univar Solutions
Excipient	Sour Cherry Flavor	2.00%	Sour Cherry Flavor	Flavor	Univar Solutions
Excipient	Potassium Sorbate	0.30%	Potassium Sorbate	Preservative	Univar Solutions
Excipient	Sodium Benzoate	0.30%	Sodium Benzoate	Preservative	Univar Solutions
Excipient	Sweetener Blend	0.20%	Sweetener Blend	Taste Intensifier	Univar Solutions
Excipient	Bitter Masking Agent	0.20%	Bitter Masking Agent	Masking Agent	Univar Solutions
Excipient	Stevia	0.40%	Stevia Bio REB M 90	Sweetener	PureCircle™
Excipient	Xanthan Gum	0.50%	Xanthan Gum FCC	Thickener	Jungbunzlauer
Excipient	Water	70.29%	Water	Solubilizer	
TOTAL		100.00%			

MANUFACTURING	
1	Add xanthan gum to 25% of water slowly while stirring constantly with torque stirrer until fully dissolved. Ensure no presence of lumps and let swell for 4 hours
2	Dissolve potassium sorbate and sodium benzoate in 50% of water until achieving a clear solution. Add tri-magnesium citrate and stir until dissolved, clear, and transparent
3	Add glycerin to 25% of water while stirring. After dilution, add stevia, flavor, masking agent, and intensifier one-by-one while mixing until fully dissolved
4	Combine Phase 2 and Phase 3, then add mixture to Phase 1 while stirring
5	Add lactic acid and mix for 2 minutes to adjust pH to approximately 4.0

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