

## Liquid formulations for dietary supplements

Formulating for shots, performance gels, or syrups

Jungbunzlauer supports liquid supplement development with a focused portfolio of organic mineral salts and functional excipients, designed to deliver stability, sensory performance, and regulatory compliance.

### Why liquid supplements?

Liquid dosage forms enable fast nutrient delivery, high bioavailability, and convenient intake; making them ideal for modern, on-the-go supplement concepts. Concentrated liquids such as shots, syrups, and performance gels allow high functionality in small volumes, while offering flexibility in dosing, taste design, and positioning.

### Benefits at a glance

#### High bioavailability

- Fully reacted organic mineral salts
- Citrates, gluconates, lactates and bisglycinates support efficient absorption

#### Nutritional and health claims

- Suitable mineral sources for EU and US supplement regulations
- Enables to use nutritional and/or health claims

#### High solubility

- Suitable for clear solutions and concentrated formats
- Enables high mineral loads in shots and syrups

#### Low taste impact

- Neutral to mild taste profiles, even at higher dosages
- Reduced bitterness and metallic off-notes compared to inorganic salts

#### Formulation stability

- Controlled pH and buffering systems
- Stable appearance, taste, and shelf life

### What sets us apart

#### Designed to perform

Jungbunzlauer ingredients are engineered for reliable performance in liquid dosage forms; from clear solutions to highly concentrated systems.

#### From ingredients to solutions

Beyond supplying ingredients, we support formulation development through application expertise and problem-solving know-how.

#### Naturally derived and sustainable

Produced via fermentation from renewable raw materials, our solutions are biodegradable and aligned with modern sustainability expectations.

#### One trusted partner

A harmonised portfolio of minerals and functional excipients; designed to work seamlessly together in liquid supplement formulations.

# Jungbunzlauer ingredients in liquid formulations

## Active ingredients – mineral fortification

These organic mineral salts enable high solubility, excellent bioavailability, and minimal taste impact in liquid applications.

- Calcium Lactate Gluconate
- Magnesium Bisglycinate
- Magnesium Lactate
- Trimagnesium Citrate Anhydrous
- Potassium Gluconate
- Tripotassium Citrate
- Sodium Gluconate
- Trisodium Citrate
- Zinc Citrate
- Zinc Gluconate
- Zinc Lactate

## Functional excipients

### Thickening and stabilisation

Support suspension of actives, viscosity control, mouthfeel adjustment, and physical stability across liquid formats.

- Xanthan Gum
- TayaGel® (Gellan Gum)

### Sweetening and taste optimisation

Allows calorie-reduced or sugar-free liquid concepts with clean, sugar-like taste and improved tolerance compared to traditional polyols.

- ERYLITE® (Erythritol)

### Acidification and pH control

Enable controlled pH, product stability, flavour balance, and optimisation of mineral solubility.

- Citric Acid
- Lactic Acid
- Gluconic Acid
- Trisodium Citrate
- Tripotassium Citrate

### Off-note masking

Support reduction of bitterness, astringency, and lingering sweetness in challenging liquid formulations.

- Sodium Gluconate
- Potassium Lactate



Scan to read the regulatory information

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