



Mineral salts for the

PHARMA

and biotechnology industries

As a **world leader** in the production of inorganic minerals, especially chlorides and sulphates, Macco Organiques has developed a unique position in the quality approach.

Active Pharmaceutical Ingredients for **original pharmaceutical products** and **generics**: World-wide class pharmaceutical companies and local SME's that require high purity minerals at a competitive price under the most stringent quality requirements with a full documentation belong to core clients of Macco Organiques.

High quality mineral salts for **biotechnology** and **biopharmaceutical industry**: Drugs produced by living cells and utilized to treat disease or provide immunity have become increasingly popular due to their greater effect than that provided by classic synthetic drugs. In the production process of cultivating, purifying and concentrating the cells to produce a target biological molecule, mineral salts are used during the Upstream process.

The developing field of Biopharmaceuticals appreciates the flexibility of packaging which Macco Organiques can offer respecting the „no paper no wood“ requirements and supplying the material in plastic drums of different sizes.

Quality is not an option at Macco Organiques.

Mineral salts for biotechnology and biopharmaceutical industry:

- **Ammonium Sulphate**
- **Calcium Acetate**
- **Calcium Chloride**
- **Calcium Phosphate**
- **Magnesium Chloride**
- **Potassium Hydroxide**
- **Potassium Chloride**
- **Potassium Phosphate**
- **Sodium Acetate**
- **Sodium Carbonate**
- **Sodium Chloride**
- **Sodium Hydroxide**
- **Sodium Hydrogen Carbonate**
- **Sodium Phosphate**
- **Sodium Sulphate**
- **Urea**

Active Pharmaceutical Ingredients (Products are suitable for parenteral applications):

Type	Chemical production					Product						
	Compliance	EU Certificate	US GMP	Jap. Certificate	CEP / CoS	EDFM	US DMF	JDMF	CDMF	KDMF	Taiwan DMF	
Certification Body	N/A	PIC / S	FDA	Jap. MoH	EDQM	N/A	FDA	Jap. MoH	CDE	Korean MoH	Taiwan MoH	
Macco Czech												
Inorganic Salts												
Calcium Chloride 2Hy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Magnesium Chloride 6Hy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Magnesium Sulphate 7Hy	✓	✓	✓	✓	✓	✓	✓	in process	✓	✓	✓	✓
Magnesium Sulphate Dried	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Potassium Chloride	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Potassium Nitrate	✓	in process	✓	✓	X	✓	✓	✓	✓	✓	✓	✓
Potassium Sulphate	✓	✓	✓	✓	✓	✓	✓	✓	✓	in process	✓	✓
Sodium Sulphate Anhydrous	✓	✓	✓	✓	✓	✓	✓	✓	✓	in process	✓	✓
Zinc Sulphate Heptahydrate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zinc Sulphate Monohydrate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organic Salts												
Sodium Glycerophosphate	✓	✓	✓	✓	in process	✓	✓	✓	✓	✓	✓	✓
Sodium Lactate min. 50%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Calcium Glycerophosphate	✓	in process	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tri-Sodium Citrate Dihydrate	✓	in process	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Macco Canada												
Calcium Acetate	✓	Health Canada	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sodium Acetate Anhydrous	✓	Health Canada	✓	✓	X	X	✓	✓	✓	✓	✓	✓
Sodium Acetate Trihydrate	✓	Health Canada	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Production under



Certification and Registrations:

GMP Q7, FSSC 22000, ISO 9001, CoS/CEP, DMF, Halal, Kosher, API Facility and DMF registrations at the US FDA

Quality Standards:

EP, BP, USP, JP, FCC, E-numbers, ACS

Our standard pack sizes:

Low volume sacks and jars (50 g - 5 kg), Bags (10 kg - 25 kg), Carton boxes 25 kg, Plastic drums (12 kg - 250 lb), Fibre drums (25 kg - 250 lb), Big-bags (400 kg - 1 000 kg)

ISSUED: 09/2024



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BRINGING
MINERALS
TO LIFE...

