

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: Worldwide 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.

# **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 Phosphate

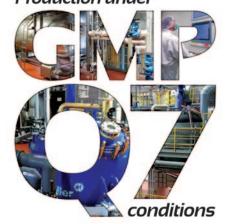
Sodium Hydrogen Carbonate

- Sodium Chloride
- Sodium Sulphate
- Sodium Hydroxide
- Urea

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

	Chemical production				Product						
	GMP Q7			CEP/CoS	EDFM	US DMF	JDMF	CDMF	KDMF	Taiwan DMF	
Туре				Jap. Certificate			Registr.	Registr.	Registr.	Registr.	Registr.
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	✓	✓	<b>✓</b>	✓	✓	✓	✓	✓	✓	✓	✓
Magnesium Chloride 6Hy	1	✓	/	<b>✓</b>	/	<b>✓</b>	1	1	✓	✓	✓
Magnesium Sulphate 7Hy	✓	✓	/	✓	✓	/	/	in process	✓	✓	✓
Magnesium Sulphate Dried	1	/	1			<b>✓</b>	/				
Potassium Chloride	✓	<b>✓</b>	1	<b>✓</b>	/	/	/	1		<b>✓</b>	✓
Potassium Nitrate	/	in process	<b>✓</b>		X	1					
Potassium Sulphate		<b>✓</b>	/		/	/	/			in process	
Sodium Sulphate Anhydrous	/	<b>✓</b>	<b>✓</b>		/	1	1		<b>✓</b>	in process	1
Zinc Sulphate Heptahydrate	✓	<b>✓</b>	/		/	/	/		/	<b>✓</b>	
Zinc Sulphate Monohydrate	/	<b>✓</b>	<b>✓</b>			1					
Organic Salts											
Sodium Glycerophosphate	/	<b>✓</b>	1		in process	1	1				
Sodium Lactate min. 50%	✓	<b>✓</b>				/					
Calcium Glycerophosphate	/	in process									
Tri-Sodium Citrate Dihydrate	✓	in process									
Macco Canada											
Calcium Acetate	1	Health Canada	1				/				
Sodium Acetate Anhydrous	1	Health Canada	1		X	Χ	/				
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



Macco Organiques, s.r.o.

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