

# Kalchem International

## Chemicals & Compounding Supplies

### Certificate of Analysis

Creation date 06/12/2015	Order-no. / Date DA-809710 / 05/20/2015	Deliverynote-no. / Date 80520957 000030 / 06/15/2015
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Our reference / Date 486332 000030 / 05/20/2015	Client number 203349
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Material / Product / Description Country of origin: CA  
106842 /  
Citric Acid Anhydrous fine F6000 in 50 lbs bags

Delivery plant  
Jungbunzlauer Canada Inc. 1555 Elm Street L3K 5V5 Port Colborne

Batch 6044582	Quantity 16,000 LB	Date of production 05/24/2015	Date of expiry 05.2018	Origin Port Colborne, Canada
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Parameter	Unit	Specification	Value
Characteristics			conforms
colourless crystals or a white, crystalline powder,			
very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether, has a strong acid taste			
Appearance of solution			conforms
Odour			conforms
typical, practically odourless			
Identification			conforms*
Clarity of solution			conforms*
Colour of solution			conforms*
Assay	%	99.70 - 100.30	99.99
Water	%	<= 0.50	0.07
Readily carbonisable substances			conforms*
Calcium	mg/kg	<= 30	conforms*
Heavy metals	mg/kg	<= 5	conforms*
Iron	mg/kg	<= 3	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead	mg/kg	<= 0.5	conforms*
Mercury	mg/kg	<= 0.5	conforms*
Chloride	mg/kg	<= 5	conforms*
Oxalic acid / oxalate	mg/kg	<= 100	conforms*
Sulphate (< 100 mg/kg)			conforms*
Residue on ignition	%	<= 0.05	conforms*
Sulphated ash	%	<= 0.05	conforms*
Particles on Mesh 25 (0.71mm)	%	0.00 - 10.00	conforms*
Particles on 0,63 mm	%	0.00 - 10.00	0.68
Particles through 0,20mm	%	0.00 - 10.00	5.70
Particles < Mesh 100 (0.150mm)	%	0.00 - 10.00	conforms*

\*) analysis is confirmed based on In-Process-Control or by random testing.

We herewith confirm that this product meets the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States

Remit USD funds to:  
Jungbunzlauer Inc  
P. O. Box 845899  
Boston, MA 02284-5899

Remit ACH:  
Jungbunzlauer Inc  
Acct#1133826595  
Citizens Bank

Remit Wire:  
Jungbunzlauer Inc  
Acct#1133826595  
Citizens Bank

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