

Certificate of Analysis

Product Name:

Lithium chloride anhydrous, free-flowing, PurReagent Plus, 98.0 – 102.0%
[Meets Biological Parameters]

Product No.: PSR46953
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 7447-41-8
Molecular Formula: LiCl
Molecular Weight: 42.39 g/mol
Date of Mfg.: May, 2026
Date of Exp.: April, 2029

Test	Specification	Result
Appearance	White crystalline powder, deliquescent	Complies
Assay (on dried basis)	98.0 – 102.0 %	99.35 %
Water insoluble matter	NMT 0.01 %	< 0.01 %
Acidity	pH between 5.5 to 7.0	6.2
Solubility	Complies	Complies
Arsenic	NMT 5.0 ppm	< 5.0 ppm
Loss on drying (130°C)	NMT 2.0 %	0.85 %
Barium (Ba)	NMT 0.003 %	< 0.003 %
Calcium (Ca)	NMT 0.01 %	< 0.01 %
Iron (Fe)	NMT 0.001 %	< 0.001 %
Potassium (K)	NMT 0.01 %	< 0.01 %
Sodium (Na)	NMT 0.2 %	< 0.2 %
Heavy metals	NMT 10.0 ppm	Complies
Nitrate (NO ₃)	NMT 0.001 %	< 0.001 %
Sulphate (SO ₄)	NMT 0.01 %	< 0.01 %
Total aerobic microbial count		
a) Total bacterial count	NMT 1000 cfu/gm	< 1000 cfu/gm
b) Total fungal count	NMT 100 cfu/gm	< 100 cfu/gm
<i>E. coli</i>	Should be Absent/gm	Absent/gm
<i>S. aureus</i>	Should be Absent/gm	Absent/gm
<i>Salmonella</i>	Should be Absent/10gm	Absent/10gm
<i>P. aeruginosa</i>	Should be Absent/gm	Absent/gm

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.

For queries on this COA, please contact our technical team at technical@pure-synth.com

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed.

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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