

17 November 2022

---

## LPI PRODUCES BATTERY GRADE LITHIUM CARBONATE WITH 99.92% PURITY FROM MARICUNGA PROJECT

---

### HIGHLIGHTS

- Optimisations introduced to the production process of LPI's Maricunga lithium project exceed industry standards, with 99.92% purity battery grade lithium carbonate being produced from samples of concentrated brine.
- Technical certification by IBZ Salzchemie GmbH & Co, under international standards, was conducted under the supervision of GEA Messo in Germany and LPI's experts in Chile.
- Samples will now be sent to potential lithium buyers for analysis as part of LPI's financing plans for mine construction at Maricunga.

Lithium Power International Limited (ASX: LPI) ("LPI" or the "Company") is pleased to provide the results from the latest optimisations introduced to the Maricunga lithium production process in January 2022 in the project's updated Definitive Feasibility Study.

Lithium Carbonate with a 99.92%<sup>1</sup> purity was produced from original, concentrated brine from LPI's test evaporations ponds at Maricunga. This significantly exceeds the industry standard specifications for battery grade lithium carbonate of 99.5%.

A relevant test to measure the Loss of Ignition ("LOI") was also conducted for 30 minutes at 500 °C, showing an LOI of 0.2%. As a result, the purity after LOI was 99.72%.

As announced in the March 2022 Quarterly Report released to ASX on 29 April 2022, concentrated brine had been sent to LPI's technological partner GEA Messo to further test production processes.

---

<sup>1</sup> Purity after Loss of Ignition – LOI for 30 minutes at 500 °C – of 99.72%.

This work was executed by the independent certified laboratory, IBZ-Salzchemie GmbH & Co KG in Germany. This was done under the supervision of GEA, with the objective of producing up to 10kg of battery grade Li<sub>2</sub>CO<sub>3</sub>.

The chemical analysis and detailed composition of impurities was as follows:

Chemical Analysis: Compound	Method	Unit	Sample
<b>Li<sub>2</sub>CO<sub>3</sub></b>	<b>%</b>	<b>99.92</b>	
<b>Li<sub>2</sub>CO<sub>3</sub> with LOI</b>	<b>%</b>	<b>99.72</b>	
<b>Al</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>B</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Ca</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	57
<b>Cr</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Cu</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Fe</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	4
<b>K</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 10
<b>Mg</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	9.3
<b>Na</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	500
<b>Ni</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Pb</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	0.83
<b>Sr</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	2
<b>Zn</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	1
<b>Cl</b>	DIN 38405 Part 1	mg/kg	125
<b>Br</b>	DIN EN ISO 10304-1 2009-07	mg/kg	< LoQ
<b>SO<sub>4</sub></b>	DIN EN ISO 10304-1 2009-07	mg/kg	100
<b>Si</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	12.6
<b>Li</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	187'739
<b>C</b>	EN ISO 15350 2010-08	mg/kg	160'000
<b>LOI</b>	30 minutes at 500 °C	%	0.2

Source: IBZ-Salzchemie GmbH & Co. KG

Samples will now be sent to potential off-takers for due diligence as part of the ongoing Maricunga finance process.

Appendix 1 (below) is the formal Analysis Certificate and a visual description of the sample Lithium Carbonate provided by IBZ-Salzchemie GmbH & Co. KG. This report has been verified internally by LPI's Chilean team.

Lithium Power International Ltd

Australia Level 7, 151 Macquarie Street, Sydney NSW 2000, Australia

Chile Av. El Golf 40, Piso 20, Las Condes, Santiago, Chile 7550107

Argentina Bouchard 680, Piso 12, (C1106ABJ), Buenos Aires, Argentina

[lithiumpowerinternational.com](http://lithiumpowerinternational.com)

ACN 607 260 328

ASX CODE: LPI

CHARGING THE FUTURE

**Lithium Power International's Chief Executive Officer, Cristobal Garcia-Huidobro, commented:**

*"We are very pleased with these positive results from our latest testing activities. Not only do they confirm the high quality and consistency of our product, but also the sustainability of our process. We are confident that those results will be welcomed by potential off-takers participating in the financing process of the Maricunga project."*



Lithium Power International Ltd

**Australia** Level 7, 151 Macquarie Street, Sydney NSW 2000, Australia

**Chile** Av. El Golf 40, Piso 20, Las Condes, Santiago, Chile 7550107

**Argentina** Bouchard 680, Piso 12, (C1106ABJ), Buenos Aires, Argentina

[lithiumpowerinternational.com](http://lithiumpowerinternational.com)

ACN 607 260 328

ASX CODE: LPI

CHARGING THE FUTURE

**For further information, please contact:**

**Cristobal Garcia-Huidobro – CEO; or Andrew Phillips – CFO Lithium Power International**

E: [info@lithiumpowerinternational.com](mailto:info@lithiumpowerinternational.com)

Ph: +612 9276 1245

[www.lithiumpowerinternational.com](http://www.lithiumpowerinternational.com)

@LithiumPowerLPI

**Jane Morgan – Investor and Media Relations**

+ 61 (0) 405 555 618

[jm@janemorganmanagement.com.au](mailto:jm@janemorganmanagement.com.au)

For U.S. and other international investor relations enquiries:

**Arrowhead Business and Investment Decisions, LLC**

Thomas Renaud | Managing Director

42 Broadway, 17th Floor

New York, NY 10004

Office: +1 212 619-6889

[enquire@arrowheadbid.com](mailto:enquire@arrowheadbid.com)

---

Lithium Power International Ltd

**Australia** Level 7, 151 Macquarie Street, Sydney NSW 2000, Australia

**Chile** Av. El Golf 40, Piso 20, Las Condes, Santiago, Chile 7550107

**Argentina** Bouchard 680, Piso 12, (C1106ABJ), Buenos Aires, Argentina

[lithiumpowerinternational.com](http://lithiumpowerinternational.com)

ACN 607 260 328

ASX CODE: LPI

CHARGING THE FUTURE

---

For personal use only



IBZ - Salzchemie GmbH & Co. KG  
Schwarze Kiefern 4 · 09633 Halsbruecke · Germany

Minera Salar Blanco S.A.  
Mr. Tarek Halasa  
Av. El Golf 40, Piso 20  
Las Condes  
Chile

CEO  
Prof. Dr. rer. nat. habil.  
Gerald Ziegenbalg

phone +49 3731 200-155  
fax +49 3731 200-156

info@ibz-freiberg.de  
www.ibz-freiberg.de



## Analysis Certificate

**Sample:** Washed and dried  $\text{Li}_2\text{CO}_3$ , obtained during process simulation with original brine at IBZ-Salzchemie

**Visual description of the sample:** white crystals



Analysis results are given in the following pages.

**Appendix:** Chemical analysis, microscopic picture and particle size distribution

Best regards,  
IBZ-Salzchemie GmbH & Co. KG

  
Dr. Sven Ziegenbalg  
Authorized Officer

**Chemical Analysis:**

<b>Compound</b>	<b>Method</b>	<b>Unit</b>	<b>Sample</b>
<b>Li<sub>2</sub>CO<sub>3</sub></b>		<b>%</b>	<b>99.92</b>
<b>Li<sub>2</sub>CO<sub>3</sub> with LOI</b>		<b>%</b>	<b>99.72</b>
<b>Al</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>B</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Ca</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	57
<b>Cr</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Cu</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Fe</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	4
<b>K</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 10
<b>Mg</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	9.3
<b>Na</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	500
<b>Ni</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	< 1
<b>Pb</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	0.83
<b>Sr</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	2
<b>Zn</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	1
<b>Cl</b>	DIN 38405 Part 1	mg/kg	125
<b>Br</b>	DIN EN ISO 10304-1 2009-07	mg/kg	< LoQ
<b>SO<sub>4</sub></b>	DIN EN ISO 10304-1 2009-07	mg/kg	100
<b>Si</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	12.6
<b>Li</b>	DIN EN ISO 11885 E22 2009-09	mg/kg	187'739
<b>C</b>	EN ISO 15350 2010-08	mg/kg	160'000
<b>LOI</b>	30 minutes at 500 °C	%	0.2

For personal use only

**Product Picture:**



For personal use only

Particle Size Distribution



# Measurement Results

## Sample Information

**Date/Time:** 11/4/2022 2:41:34 PM

**Device:** B9810018L05

**Method:** LiCO3

**Material:** Lithium carbonate

**SampleID:** Gea Chile

**User:** Korngröße

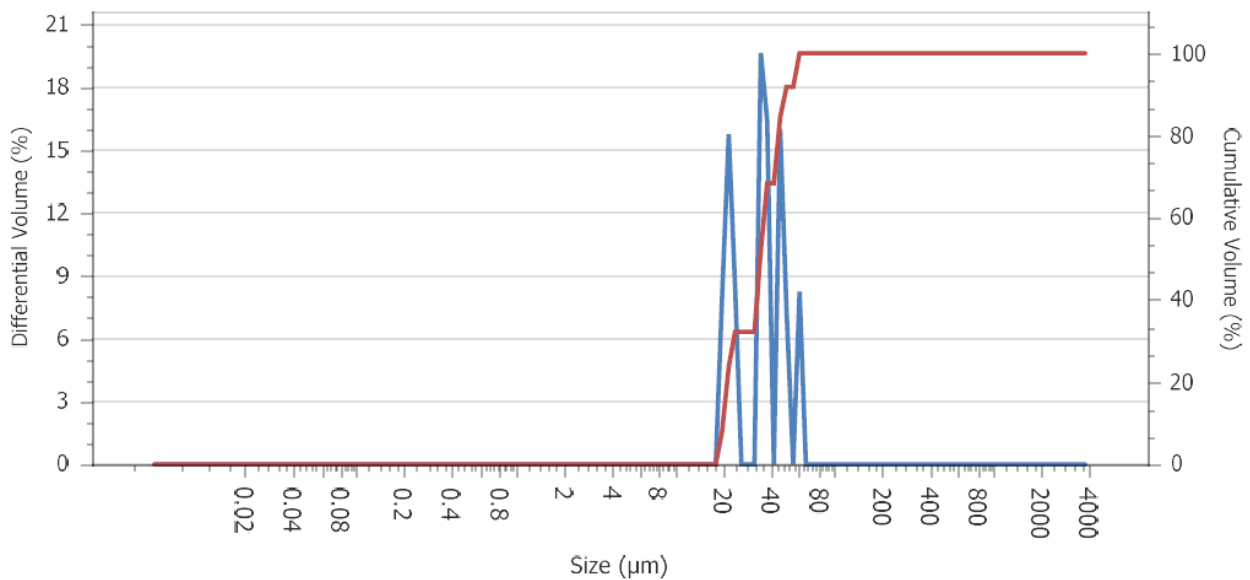
**Module:** Universal Liquid Module

**Properties:** LiCO3

**Carrier Fluid:** IBZ Ethanol

**GroupId:** LiCOs-MSB-3

## Graph of Results



## Statistics

Run	1	Avg	CV (%)
D10 (µm)	20.97	20.97	0.0000
D50 (µm)	35.93	35.93	0.0000
D90 (µm)	51.52	51.52	0.0000
Mean (µm)	36.10	36.10	0.0000
StDev (µm)	12.11	12.11	0.0000
Total (%)	100.0	100.0	0.0000
Volume(%) at size = 100 (µm)	0.0000	0.0000	0.0000
Volume(%) at size = 1000 (µm)	0.0000	0.0000	0.0000
Volume(%) at size = 200 (µm)	0.0000	0.0000	0.0000
Volume(%) at size = 400 (µm)	0.0000	0.0000	0.0000
Volume(%) at size = 600 (µm)	0.0000	0.0000	0.0000
Volume(%) at size = 800 (µm)	0.0000	0.0000	0.0000

Type : Arithmetic

For personal use only