AQUA BOND INC.

CERTIFICATE OF ANALYSIS (COA)

Product: *Sodium Bicarbonate ($NaHCO_3$) *High-Purity, Multi-Application Grade*

Aqua Bond Inc.

Quality & Technical Division Toronto, Ontario, Canada

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Product Identification

Product Name: Sodium Bicarbonate
Synonyms: Baking Soda, Sodium Hydrogen Carbonate
Chemical Formula: $NaHCO_3$
CAS Number: 144-55-8
EC Number: 205-633-8
HS Code: 2836.50
ECCN: EAR99
Grade: Food / Industrial / Pharma (select one)

Batch Information

Batch / Lot Number: _____
Manufacture Date: _____
Expiry / Retest Date: _____
Packaging Size: _____
Country of Origin: _____

Specifications & Analytical Results

Parameter	Specification	Result	Pass/Fail
Appearance	White crystalline powder	_____	____
Purity ($NaHCO_3$)	≥ 99.0%	_____	____
pH (1% solution)	8.2 – 8.4	_____	____
Moisture	≤ 0.25%	_____	____
Loss on Drying	≤ 0.20%	_____	____
Bulk Density	0.90 – 1.10 g/cm³	_____	____
Particle Size	As specified	_____	____
Solubility	96 g/L at 20°C	_____	____
Odor	Odorless	_____	____
Heavy Metals	Meets FCC/USP limits	_____	____
Arsenic	≤ 2 ppm	_____	____
Lead	≤ 2 ppm	_____	____
Microbial Limits*	As applicable	_____	____

*Microbial testing applies to food-grade or pharma-grade material.

Compliance Statement

This product meets or exceeds the following standards (as applicable):

FCC / Food Chemical Codex
USP / BP / EP (pharma grade)
FDA GRAS (21 CFR 184.1736)
EU Food Additive E500(ii)
Codex Alimentarius
REACH Registered

Certification

I hereby certify that the above material has been tested according to Aqua Bond Inc. quality procedures and conforms to the specifications listed in this Certificate of Analysis.

Authorized By: _____
Title: _____
Date: _____
Signature: _____

Aqua Bond Inc. – Quality Assurance Department