

**Powering Human
Intelligence & Health.**

Engineered by

jubicholine™



Our Commitment to Human Potential

At Jubilant Ingrevia, we believe true nutrition is the silent architect of human potential. Backed by the scale of the Jubilant Bhartia Group, our journey is defined by over four decades of transition and progress. Today, we cater to over 1,500+ customers globally and provide a portfolio of more than 130 products across various business segments.

Jubicholine marks our established presence in the Choline business for human health. It is our commitment to powering human potential, merging world-class science with our Responsible Care initiative and sustainability commitments to support better health at every life stage.



The Choline Imperative

Intelligence begins as a whisper. For years, Choline was considered an overlooked essential water-soluble nutrient, remarkably similar to Vitamin B.

Today, it has emerged as a global health priority, with consumers viewing health as a holistic harmony of body, mind, and soul. They are no longer simply looking for isolated chemical ingredients; they are seeking the foundational building blocks of a resilient life. We bridge this global nutritional gap with Choline, a precision engineered solution designed to meet this urgent market demand.

jubicholine™

We don't just sell molecules; we fuel the spark within. Choline provides the high purity Vitamin B4 salts required for life's most critical physiological processes. By transforming a technical staple into a premium, bioavailable catalyst for cognitive and metabolic wellness, we offer a dedicated, sustainable solution for human nutrition.



The Science of Health Empowering Every Milestone

Our high-purity ingredients provide the essential support required for the body's most vital functions:

Jubicholine Advantages

Brain Development & Support:

As a cognitive guardian, Choline fuels brain development during the critical first 1000 days of life and empowers memory and focus.^[1] Its efficacy is so profound that it improves overall cognitive abilities and is even utilized in medications for Alzheimer's.

Metabolic Engine & Liver Support:

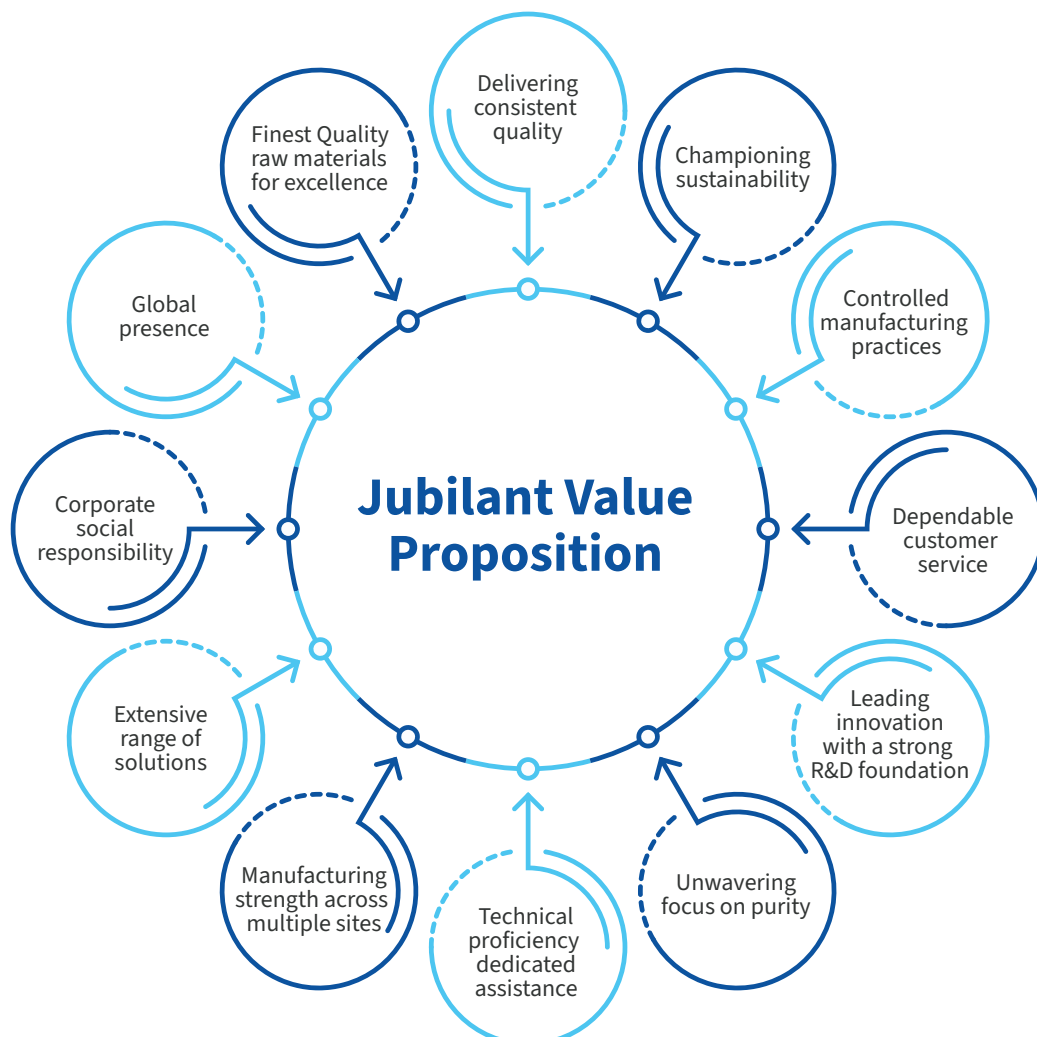
Your liver is the body's quiet power plant. Choline & its metabolites (like betaine & phosphatidylcholine) could prevent or alleviate fatty liver through a variety of mechanisms including increased removal of cholesterol & triglycerides from liver to support optimal liver function.^[2]

Heart/Cardiovascular Health:

For those pushing their physical limits, Choline supports robust heart health by managing homocysteine methylation. Normal homocysteine levels are required for good cardiovascular health.^[3]

1. Derbyshire E, Obeid R. Choline, Neurological Development and Brain Function: A Systematic Review Focusing on the First 1000 Days. *Nutrients*. 2020 Jun 10;12(6):1731.
2. Duric, M., Sivanesan, S. and Bakovic, M. (2012), Phosphatidylcholine functional foods and nutraceuticals: A potential approach to prevent non-alcoholic fatty liver disease. *Eur. J. Lipid Sci. Technol.*, 114: 389-398.
3. Jieru, P.; Zhang, S.; Cai, L.; Long, W.; Wang, Y.; Zhang, L.; Dong, Y.; Zhang, W.; Liao, J.; Yang, C. Dietary choline intake and health outcomes in U.S. adults: Exploring the impact on cardiovascular disease, cancer prevalence, and all-cause mortality. *J. Health Popul. Nutr.* 2024, 43, 59.

Total Supply Chain Control



The Proof:

Global Daily Requirements

To support these milestones, we align our solutions with global nutritional standards. The following table outlines the adequate daily intake of Choline required to maintain this vital equilibrium across every stage of life:

LIFE STAGE	AGE	MALES (MG/DAY)	FEMALES (MG/DAY)
Infants	0 to 6 months	125	125
Infants	7 to 12 months	150	150
Children	1 to 3 years	200	200
Children	4 to 8 years	250	250
Adolescents	9 to 13 years	375	375
Adolescents	14 to 18 years	550	400
Adults	19+ years	550	425
Maternal	Pregnancy		450
Maternal	Breastfeeding		550

Source: National Institutes of Health (NIH) / EFSA Nutritional Guidelines.

Applications & Portfolio:

Where Life Happens

We understand your specific market segment and provide the specialized platforms to match.

Infant Formula & Therapeutic Nutrition:

Our high purity salts are meticulously designed to meet the world's strictest specifications.

Daily Wellness:

We offer tailored, customized grade solutions for multivitamins, tablets, capsules, and gummies.

Fueling the Moment:

Our ingredients seamlessly integrate into liquid premixes, fortified beverages, and energy drinks for active consumers on the go.



jubicholine™

Portfolio Specifications

We offer a versatile portfolio characterized by product consistency and free-flowing powders, ensuring batch-to-batch reliability for your specific delivery systems:

FEATURE	CHOLINE CHLORIDE (CC)	CHOLINE BITARTRATE (CBT)
Synonyms	2-Hydroxy-N,N,N trimethylethanaminium chloride Vitamin B4	(2-Hydroxyethyl) trimethylethanaminium L-(+)-tartrate salt Vitamin B4
Chemical Formula	$C_5H_{14}NOCl$	$C_9H_{19}NO_7$
CAS Number	67-48-1	87-67-2
Pharmacopeia	USP / FCC	USP / FCC
Grades Available	CC USP/FCC	CBT FCC 20/40 Mesh; CBT FCC Cond 20 Mesh; CBT USP 20/40 Mesh; CBT USP Cond 20/80 Mesh

The Jubilant Ingrevia Advantage: **Absolute Certainty**

In a world of complex supply chains, we offer absolute certainty from molecule to market.



Total Supply Chain Control

With 30 years of traceable value chain expertise



Sustainability

Our fully backward integrated "Green Route" for Vitamin B3 ensures unmatched sustainability, featuring 6 manufacturing facilities across 2 sites.



In-house Technology

Directly from Key Starting Materials produced in a GMP certified facility; use of L-Tartaric Acid powerfully enhances bioavailability.



Manufacturing Strength

Bharuch, Gujarat India



Innovation

Strong R&D foundation of over 150 qualified scientists, including 26 PhDs; in house USP 46 analysis and manufacturing capabilities.

World-Class Recognition

In 2024, Jubilant Ingrevia Limited was recognised by the World Economic Forum (WEF) and entered its prestigious Global Lighthouse Network (GLN) for deployment of 4IR technologies.



Offerings



Dry Solutions

Customized Grade solutions for dry premixes/tablets/capsules containing choline salts.

Liquid Solutions

Customized Grade solutions for liquid premixes containing choline salts.



Compliance:



Let's Co-Invent the Future

We are moving beyond being a vendor to become your visionary global partner in Human Nutrition & Health. With our extensive range of solutions and finest quality raw materials, partner with us for your next innovation.

The Partner Promise



45+

years of legacy



50+

plants



06

manufacturing
facilities



2300+

employees



150

scientists



130+

products

Jubilant Ingrevia Limited is a leading solutions provider of Specialty Chemicals & CDMO globally, serving Pharmaceutical, Nutrition, Agrochemical, Consumer, Semiconductor and Industrial customers. It offers customised solutions that are innovative, cost-effective and conform to global quality standards and has a broad portfolio of 130+ products.

It has over 45 years of legacy in the chemicals industry and is amongst the top players globally in Pyridine & Picolines, Pyridine derivatives, Acetic Anhydride, Vitamin-B3 and many other products. Jubilant Ingrevia Limited has a fast-growing Custom Development and Manufacturing business (CDMO) serving pharmaceuticals, agrochemicals and semiconductor sectors. The Company serves customers in US, EU, Japan, Middle East, South East Asia and other geographies, in addition to domestic market from its 50 plants across 6 manufacturing facilities in India with a workforce of over 2,300 employees. Its three R&D centres employ 150 scientists working on cutting-edge research and innovation.

Jubilant Ingrevia Limited is a Responsible Care certified company and ranked highly in global ESG indices such as Ecovadis and Dow Jones Sustainability Index. In 2024, Jubilant Ingrevia Limited was also recognised by the World Economic Forum (WEF) and entered its prestigious Global Lighthouse Network (GLN) for deployment of 4IR technologies.





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