

**ANIMAL NUTRITION &  
HEALTH SOLUTIONS**



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## Animal Nutrition & Health Solutions

The Animal Nutrition & Health Solutions business of Jubilant Ingrevia is a **leading manufacturer and supplier of a variety of Feed Additives & Supplements for poultry, dairy, swine, aqua and pet food.** With complete quality control, FAMI-QS and ISO certified plants, flexibility of operation, speed to customer and a broad portfolio of specific premixes and additives, we are a trusted 'Partner of Choice' for our customers.

## BUSINESS OVERVIEW

### PRODUCT PORTFOLIO

#### Vitamin B4 – Choline Chloride

Jubilant Ingrevia is India's largest manufacturer of Choline Chloride, under the 'Anichol' brand name. Choline is also known as Vitamin B4 and is an essential nutrient that plays many important metabolic roles in livestock.

Choline, a water soluble compound with vitamin-like properties, is widely distributed in feedstuff in the form of 'phosphatidylcholine', and its content has been standardised and reported by the National Research Council. However, variation of bioavailability and content of Choline in feeds arises due to variation in prevailing crop growth conditions such as climate, cultivation, soil, location, fertilizer and other farming practices. Due to these reasons, Choline should be supplemented additionally in feed as it serves a number of critical functions in the body.

Anichol is offered in different variants, all of which duly meet international quality standards.

#### Product Variants

|                |  |
|----------------|--|
| Anichol® Ultra | (Value added Choline Chloride)               |
| Anichol® 60    | Choline Chloride 60% Dry (Vegetable Carrier) |
| Anichol® 50    | Choline Chloride 50% Dry (Silica Carrier)    |
| Anichol™ 75    | Choline Chloride 75% Aqueous                 |
| Superchol™ 99  | Choline Chloride 99% Crystals                |

#### Applications

##### Animal nutrition:

- Poultry
- Dairy
- Aquaculture
- Swine
- Pet food

##### Industrial:

For oil & natural gas industry for clay stabilization

##### Pharmaceutical:

Pharmaceutical companies formulating Choline enriched products

#### Specialty Products & Premixes

Jubilant Ingrevia offers best-in-class Specialty Feed Supplements & Additives to integrators, feed millers and commercial farmers across the globe, thus helping them to continuously increase their returns on investments

These specialty products and premixes are added in feed at different inclusion level that improves animal performance or improves quality of feed by preventing against certain disease conditions.

| PRODUCT CATEGORY               | PRODUCT               | PRODUCT DESCRIPTION  |
|--------------------------------|-----------------------|--|
| Gut Health Solution            | ButyMax               | Target gut action with micro-encapsulated butyric acid for maximising gut health   |
|                                | ButyMax Ultra         | Target gut action with micro-encapsulated butyric acid, Tributyrin, Nano Zinc for maximising gut health                                      |
|                                | JubiCid               | Unique blend of Organic acids for prolonged action on both feed and gut  |
| Feed Quality Solutions         | AciFeed Aqua          | Broad spectrum mould & bacterial inhibitor for Aqua  |
|                                | Aflasil Forte         | Complete Mycotoxin binder with synergistic blend of organic acids with specially processed HSCAS   |
|                                | ToxiCop               | Complete organ protection solution for Mycotoxin/ bacterial endotoxin  |
|                                | AciFeed Aqua          | Broad spectrum acidifier for poultry   |
|                                | Brotax                | Ideal Mycotoxin & endo toxin binder with Phyllosilicates, Buffered Organic Acids, MOS, Polymer resin and Activated Charcoal                  |
| Transition Cow Solution        | AniChol RP            | Encapsulated Choline Chloride for proper fat metabolism in dairy cattle  |
|                                | Niacon RP             | Encapsulated Niacin for Negative energy balance(NEB) in dairy cattle   |
| Inorganic Mineral Solution     | Jubimin               | Highly standardised High performance inorganic trace mineral premix  |
|                                | Jubimin Plus Aqua     | High performance inorganic trace mineral premix  |
|                                | NutraPlus DP          | Inorganic trace mineral premix for cattle  |
| Organic Mineral Solution       | HiProMin              | Highly bioavailable & stable Glycine chelated trace minerals for superior performance  |
|                                | HiProMin CP101        | High performance organic trace mineral premix  |
|                                | HiProMin Breeder      | Highly bioavailable Glycinated trace minerals for broiler breeder  |
|                                | HiProMin- MHA         | Metho-Chelated high performance organic trace mineral premix   |
| Feed Efficiency Solutions      | AniChol Ultra         | Breakthrough innovative Value added choline prepared by infusing proprietary blend of methyl donor organic compounds in Choline Chloride 60% |
|                                | JubiDol               | Natural Feed emulsifier cum Nutrient absorption enhancer   |
|                                | JubiDol SS            | Natural Feed emulsifier with low CMC   |
|                                | Jubizym Total         | Blend of enzymes with Probiotics for maximum nutrient release  |
|                                | Hi-Feed Phytase       | Thermo-stable micro-granulated Phytase to maximise phosphorous utilization   |
|                                | Hi-Feed Phytase XP    | Fifth generation bacterial origin Thermo-stable micro-granulated Phytase   |
| Anti stress Solution           | EnCroMix              | Highly bioavailable Chromium to optimise performance through energy metabolism   |
|                                | EnCroMix CP101        | Blend of highly bioavailable Chromium, Encpsulated Vitamin C, Biotin & Ribose to optimise energy metabolism                                  |
|                                | Osmobetaine           | 98% Betaine HydroChloride for Osmoregulation support   |
| Milk Quality Solution          | DairyMax              | Blend of Vitamins & essential amino acids for maximising herd performance  |
|                                | JubiMeth RP           | Encapsulated Methionine for milk quality enhancement in dairy cattle   |
|                                | JubiLys RP            | Encapsulated L- Lysine for milk quality & quantity enhancement in dairy cattle   |
| Hepato Protection Solution     | AniChol L             | Liquid Choline formulation for rejuvenation of vital organs  |
|                                | PhytoShield LivoBoost | Natural Choline for hepatoprotection & rejuvenation  |
| Animal Performance Enhancement | PhytoShield BioMeth   | Natural Methionine. Naturally Bioavailable   |
|                                | Jubi AD3E RP          | Rumen protected Vitamin AD3E premix  |
| AGP Replacer                   | PhytoSheild GroPlus   | Natural growth promoter  |
| Egg Quality Enhancer           | Egghancer             | Egg quality improver for breeder and layer with 360° action to improve quality and productivity  |

The encapsulated product range has proven efficacy in various animal species and are well defined with dissolution studies to ensure performance.

### Manufacturing

The manufacturing facility is certified by ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 and is FAMI-QS quality compliant with a production capacity of 24000 MT/annum for Choline Chloride and 5000 MT/annum for premixes. ANHS manufacturing plant which is located in Vadodara, Gujarat, India, has a backwardly integrated corn cob manufacturing facility, which is unique to the organisation. The highly sophisticated on-site quality control laboratory along with the elaborate QC and QA protocols ensure that Jubilant stands up to its most precious promise to the world - *consistent delivery of topmost quality*. The Choline Chloride plant is with programmable logic controller (PLC) automated system for manufacturing best in class products. Raw materials that are conformed to specification are used for manufacturing of international standard products.

### Strength

- High Quality products- Feed additives & premixes are produced with adherence to highest production standards which ensure best in class product quality

and makes the products free of related impurities and safe for human handling

- Assurance of quality- Certificate of analysis of every batch of material before dispatch
- World class R&D facilities
- Diversified services to customers
  - ✓ Technical Services like Feed Formulation, Trial Designing, Farm Audit etc.
  - ✓ Analytical services like On-Spot Demo Kits, Lab Testing Services, Design & Audit of Laboratory etc.
  - ✓ Training services like Farm Management Practices, Technical Seminars, Farmer Group meetings etc.
  - ✓ IT Services like Dosage Calculators (OpReChol), Feed Formulation etc.

### Customised Manufacturing Services

Apart from production and marketing of our own range of products; we are in the business of customised development and manufacturing of products for our valued clients. Our scientific capabilities in Research and Development power our throughputs and we have successfully developed customised products for a range of customers at economical costs.

## MANUFACTURING FACILITIES

### UTTAR PRADESH

- Gajraula

### GUJARAT

- Bharuch
- Samlaya

### MAHARASHTRA

- Nira
- Ambarnath

## OFFICE LOCATIONS

### India

#### Maharashtra

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