CBFeed
BIOTEXNOLOGIYA ZAVODI

CBFeed – More performance from every gram of feed

A proprietary *B. subtilis* strain that improves digestion and gut health

Patented high-yield fermentation | Industrial production live | 20+ patent countries

July, 2026

Contact: Akrom Abdurakhmonov | +998 91 166 20 43| meakrom@gmail.com

Who we are

- Central Asia's first biotech company creating high-value products from agricultural and industrial waste

- **Full-cycle probiotic feed production** on our own patented technology and proprietary *B. subtilis* strain

CBFeed
BIOTEXNOLOGIYA ZAVODI

What we've achieved

- Built **full-cycle industrial production** of probiotic additives on new patented technology — from lab to stable industrial production
- **Sold 200 tons in 8 months and reached breakeven**
- A team anchored by PhDs in microbiology, zootechnology, and economics, plus industry specialists
- Registered a new, high-yield *B. subtilis* strain with the Gene Bank — now selling probiotics built on it
- **New revenues from waste are in development:** own rooster flock raised on fruit-cannery waste — feed cost cut 6,500 → 1,000 UZS/kg, mineral Calcium rich additive from sugar waste

Team with 8+ years of R&D and industrial launch experience



Abror Dadakhodjaev
CEO/CTO
PhD in Chemistry, Serial entrepreneur with 25+ years of experience



Dilshod Yuldashev
Feeding Consultant
PhD in Zootechnology, former chief zootechnician of an agricultural holding, expert on rations



Akhmadzhan Maksumkhanov
Head of Microbiology Lab
PhD in Microbiology, 20+ years in Biotechnology



Akrom Abdurakhmonov
DCTO
BSc in Physics, Operations & Commercial Lead

+ 5 industry specialists

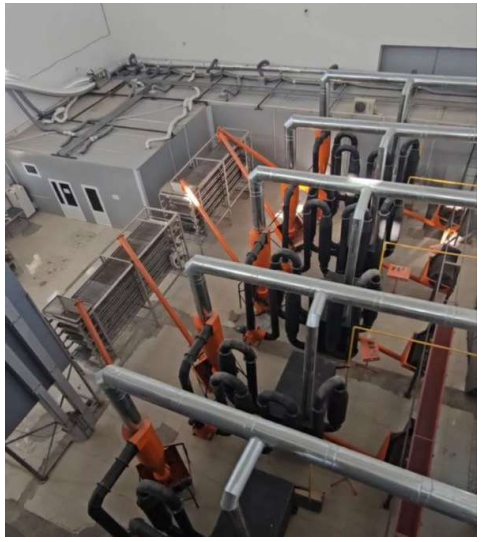
CBFeed
BIOTEXNOLOGIYA ZAVODI

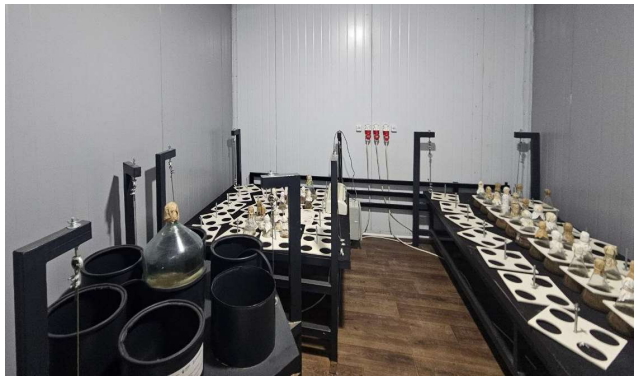
Production Facility

Industrial assets in place. Currently producing commercial volumes













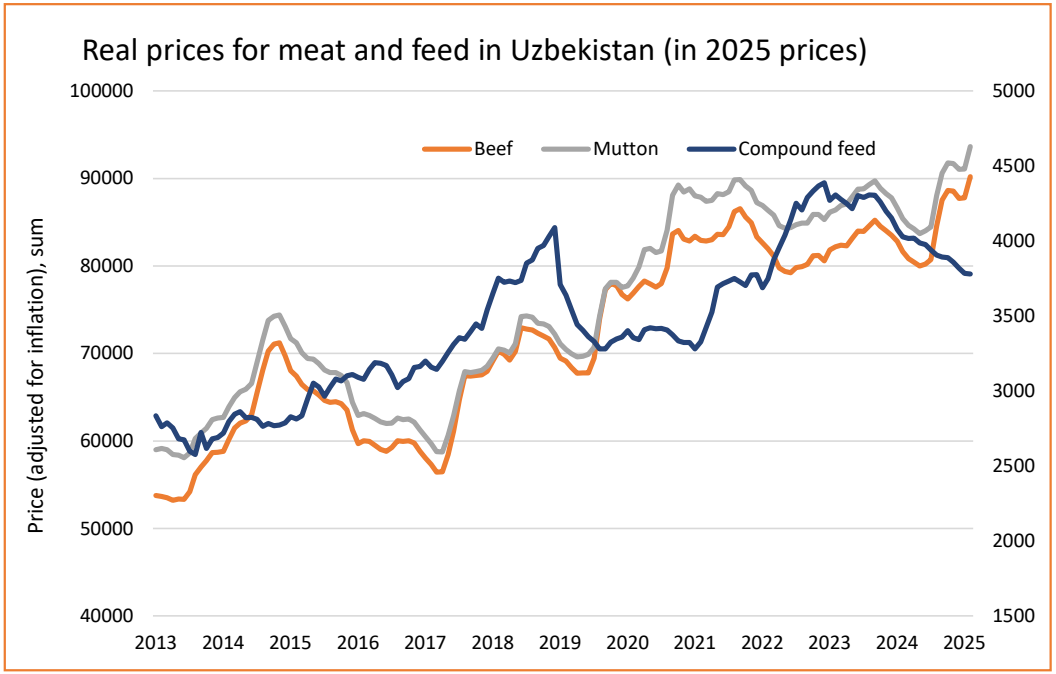
Equipment procured via World Bank procedures

The problem: Farmers are squeezed from both sides

Feed costs keep rising — but cheaper feed means worse performance

- Feed is **60–70% of production cost,** and climbing (feed prices +60% since 2013)
- Farms depend on **imported, price-volatile, supply-unstable grains and additives**
- Animals **don't fully convert the feed they're given** – poor digestibility and compromised gut health mean lost weight gain, higher mortality and feed that's wasted
- Cutting feed *quality* to save money hurts performance

The lever isn't increasingly cheaper feed.
It's getting more out of feed you already buy.



https://siat.stat.uz/

CBFeed
BIOTEXNOLOGIYA ZAVODI

Why Now

The shift to performance additives is happening now

- Antibiotics are being designed out of feed
- Rising feed costs make every point of FCR worth more
- Protein demand is intensifying
- Government is pushing for import substitution

The market is moving from "cheaper feed" to "better feed conversion"

CBFeed
BIOTEXNOLOGIYA ZAVODI

Our solution: A proprietary B. subtilis strain that makes every gram of feed work harder

Better digestion and gut health first — lower cost follows

- Patented, high-yield strain of B. subtilis (AA-1), produced by our proprietary fermentation process.
- What it does:
  - Secretes digestive enzymes → animals extract **more nutrients from the same feed**
  - Competitively excludes pathogens and improves gut morphology → **normalized gut health**

The result: Better feed conversion, higher weight gain, lower mortality
The consequence: More output per unit of feed **→ cost per kg of gain drops.**

CBFeed
BIOTEXNOLOGIYA ZAVODI

Why CBFeed

Structural advantages competitors cannot copy

1. Proven performance

- Measured profit uplift: better FCR, higher weight, lower mortality.

2. Defensible technology

- Patented industrial process **and** a proprietary B. subtilis strain. Not an input anyone can copy.

3. Cost & supply security

- Abundant and cheap local substrate, no dependence on imported ingredients

Observed qualities:

- **+7–15%** daily weight gain
- **–10%** feed consumption
- Improves gut health and feed conversion

Tested on 10 000 000+ broilers in real farms since 2017

CBFeed
BIOTEXNOLOGIYA ZAVODI

Technology & IP

Patented, industrially deployable process

- **3 patented technologies**
- Patent protection in **20+ countries** (valid through 2038)
- Defensibility comes from patented process integration and unique strain
- **The production process is reproducible at industrial scale and already operating**





IXTIROGA

PATENT

ПАТЕНТ НА ИЗОБРЕТЕНИЕ

O'ZBEKISTON RESPUBLIKASI ADLIYA VAZIRLIGI HUZURIDAGI INTELLEKTUAL MULK AGENTLIGI
АГЕНТСТВО ПО ИНТЕЛЛЕКТУАЛЬНОЙ СОБСТВЕННОСТИ ПРИ МИНИСТЕРСТВЕ ЮСТИЦИИ РЕСПУБЛИКИ УЗБЕКИСТАН

№ IAP 05799

Ем олиш усули
Способ получения корма

Талабнома келиб тушган сана: 11.05.2017
Дата поступления заявки:

Талабнома рақами: IAP 2017 0176
Номер заявки:

Ustuvorlik sanasi:
Дата приоритета: 11.05.2017

Patent egasi (egalari):
Патентообладатель(и):
Султанходжаев Аманулла Асадуллаевич, Дадаходжаев Аброр Абдурахманович, UZ

Ixtiro muallif(lari):
Автор(ы) изобретения:
Султанходжаев Аманулла Асадуллаевич, Дадаходжаев Аброр Абдурахманович, UZ

Direktor v.v.b.
Вр.и.о. директора
Б. Саидуллаев

INTELLEKTUAL MULK AGENTLIGI

CBFeed
BIOTEXNOLOGIYA ZAVODI

Competition

	CBFeed	Global DFM producers	Local commodity additives
B. subtilis concentration	High	High	Low (none)
Price per active unit	Better value	High (imported)	Low
Supply	Local	Imported, volatile	Local
Proven on local farms	Yes	Global data, not local	Rare
Feed-substitution capability	Yes – displaces 7-10% of compound feed	No	No
Regulatory	Registered in Uzbekistan, patents in 20+ countries	Global, slow local entry	Local

CBFeed
BIOTEXNOLOGIYA ZAVODI

*Comparison reflects **Central Asia cost structure and logistics**, not global averages

2 pipes: sold directly and licensed

BM feeds direct sales and a licensing network

- **Direct**: sell BM to feed producers and integrators
- **License**: partners make CBFeed/Forte regionally from our BM — market coverage without our capex, recurring BM offtake we control

- **The constraint**: Current facility max at **40 t BM/month.**

Bottom line: **Expanding BM capacity is the one investment that unlocks direct sales and licensing at once.**

CBFeed
BIOTEXNOLOGIYA ZAVODI

CBFeed BM - a high-margin concentrate

We produce the active core; everything downstream is diluted from

- High-concentration B. subtilis concentrate (2×10^12 CFU/g).
- Produced for 8,000 UZS/kg, sold at 65,000 UZS/kg → **~88% gross margin**
- The **active ingredient** of every other product
- 1kg CBFeed BM → 10 kg CBFeed Forte
- 1kg CBFeed BM → 100kg of CBFeed

CBFeed
BIOTEXNOLOGIYA ZAVODI

Traction & Validation

Operating business with validated demand

- **60+ tons CBFeed and Forte/month and 2 tons BM/month already sold**
- First paying clients secured
- Industrial production launched in 2025
- World Bank BIRD grant: **$579,505**
- Co-financing (private sector): **$151,000**
- 8 years of R&D and trials

CBFeed
BIOTEXNOLOGIYA ZAVODI

Development History



2017

Laboratory Establishment and Research Commencement
A microbiology laboratory was established. The first developments of the CBFeed technology began.

2018-2019

Testing and International Cooperation
Industrial trials were conducted on cattle and poultry. Collaboration with the international inspection company SGS was established to confirm product quality. Our laboratory facilities were expanded.

2019-2020

Construction and launch of the first CBFeed plant
The first production plant was commissioned. Patents were obtained in Uzbekistan, Japan, Russia, Malaysia, and Kazakhstan.

2020-2022

Scaling and Modernization
Commercial deliveries to farmers in Uzbekistan began. Industrial trials were conducted on 3 million broiler and egg-laying birds. Production was modernized and capacity was expanded.

2023-2024

International Recognition and World Bank Support
International patents were obtained in countries in Southeast Asia, Europe, and the Americas. The project was funded by the World Bank under the BIRD program. CBFeed is included in the national MUNIS program of the Ministry of Higher Education, Science, and Innovation of the Republic of Uzbekistan.

2025

Official registration and launch of the new product CBFeed Forte
CBFeed feed additives have been registered according to TS and TY standards 33893711-001:2025. A modernized feed additive production facility has been launched.

2026

Expanding market coverage in Uzbekistan
By the end of the year, we plan to introduce new products – CBFeed+, CBFeed++, CBFeed BM, and Bacillus subtilis AA-1 – to the market, increase production capacity to 300 tons per month, and attract 10+ additional large customers.

Three ways to partner

① License · Central Asia

- You build & sell CBFeed/CBFeed Forte via our license; you source CBFeed BM from us.

② Distribution · US & EU

- Your channel carries our CBFeed BM into the probiotic additives market.

③ Invest · BM capacity

- $1M+ expands the capacity and reach.

CBFeed
BIOTEXNOLOGIYA ZAVODI

Partnership structures in detail

	You get	We get
① **License**	Exclusive territory (CA ex-UZ), CBFeed + CBFeed Forte production process transfer, BM supply, registration support	You build/operate the plant; sole-source BM; license fee + royalty
② **Distribute**	BM supply, preferred rights in your territory, product/reg support	Your feed additives and components channel; you lead FDA/AAFCO/EU; committed offtake
③ **Invest**	Minority equity in BM production	$1M+ to lift the 40 t/month BM ceiling and penetrate the market

CBFeed
BIOTEXNOLOGIYA ZAVODI

① Available market for Licensee

4M tons of compound feed produced in Uzbekistan annually

Total potential Market:

~2% dose of CBFeed → ~80,000 tons

→ **$20–25M**

(At $280/ton CBFeed)

OR ~0.5% of CBFeed Forte → ~20,000 tons

→ **$25–28M**

(At $1300/ton CBFeed Forte)

If addressing 10% of the market:

→ **$2–3M**

Not to mention Central Asia market as a whole, which is 3-5 times bigger

① The farmer economics that drive licensee demand

Before CBFeed	With CBFeed
Feed type: standard compound feed	Inclusion: 2% CBFeed or 0.5% CBFeed Forte
Feed conversion ratio(FCR): 1.5	FCR: 1.3 (lower by 14%)
Average live weight: 3kg	Average live weight: 3.3kg (+10%)
Mortality: ~5.3%	Mortality: ~4.5% (-15% vs control, as low as 3.5%)
Profit per bird: 32 400 UZS	Profit per bird: 37 000 – 38 000 UZS (+5000-5800 UZS)
	CBFeed cost per bird: 800 UZS/bird
	Payback: CBFeed pays for itself in **8 days in a production cycle**.

- **CBFeed generates** ~5,000–5,800 UZS additional profit per bird
- **At cost:** ~800 UZS per bird
- **Net uplift:** ~4,200-5,000 UZS

Strong farmer returns → sustained demand for finished product

② Distribute · BM into US & Europe

We supply the product; you own the channel and the regulatory path

- **We provide:** BM concentrate + dossier & registration support
- **We seek:** your channel + your lead on FDA/AAFCO/EU authorization
- **Why you:** a sole-sourced premium product for the distribution channels you already run — entering a ~$417M US DFM market *(growing ~6%)*

CBFeed
BIOTEXNOLOGIYA ZAVODI

③ Invest · Capital raise: $1M

Use of funds:

- Production capacity expansion → $300 000
- Working capital → $580 000
- Market expansion & registration abroad → $120 000

We offer:

Minority equity in CBF Animal Nutrition

$1M unlocks 2× BM production capacity

CBFeed
BIOTEXNOLOGIYA ZAVODI

③ What This Unlocks

Within **18–24 months:**

- Significantly higher BM monthly production output
- Strong positive cash flow
- Regional licensing live + US/EU distribution started
- Export-ready product portfolio

CBFeed is an operating industrial business with proven unit economics.

CBFeed
BIOTEXNOLOGIYA ZAVODI

Closing

CBFeed: a proprietary strain that makes feed work harder – at a scale.

Thank you.

Contact: Akrom Abdurakhmonov

Email: meakrom@gmail.com

Phone: +998 91 166 20 43 (Telegram/WhatsApp)

CBFeed
BIOTEXNOLOGIYA ZAVODI