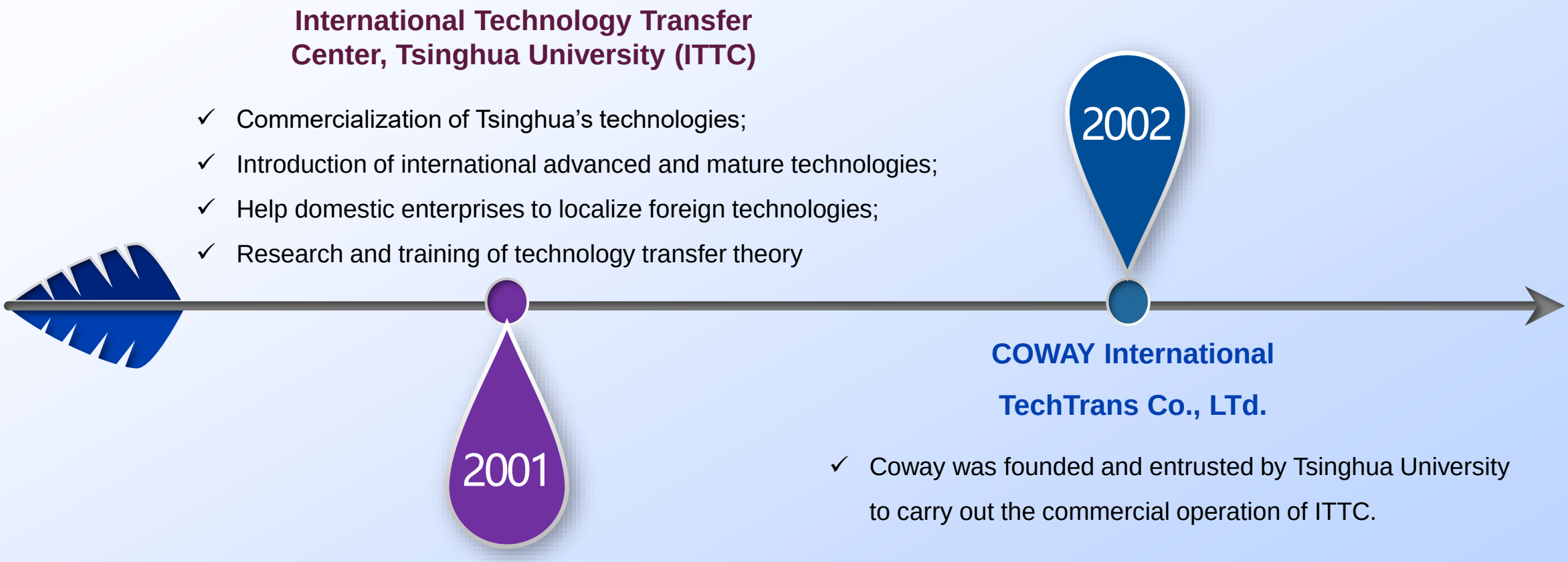
Coway International TechTrans Co., Ltd.

BioChemical Division

Nov., 2025

www.cowaybio.com

Coway Overview



International Technology Transfer Center, Tsinghua University (ITTC)

- ✓ Commercialization of Tsinghua's technologies;
- ✓ Introduction of international advanced and mature technologies;
- ✓ Help domestic enterprises to localize foreign technologies;
- ✓ Research and training of technology transfer theory

COWAY International TechTrans Co., LTd.

- ✓ Coway was founded and entrusted by Tsinghua University to carry out the commercial operation of ITTC.

Coway Features

Professional

- ✓ **Field:** Bio&chemical industry
- ✓ Professional team of technical managers
- ✓ Experienced team of R&D and industry experts



International

- ✓ Extensive international cooperation network
- ✓ In-depth participation in international organizations

BioChemical

We’ve been at the forefront of R&D/commercialization and international technology transfer of biotechnologies for over 20 years, and specialize in providing high-quality APIs, nutritional ingredients, and cosmetic ingredients with our fermentation and bioconversion technology.





- **Fields**

➢ Pharmaceuticals (APIs and Intermediates)
  - Antibiotics
  - Anti-cancers
  - Antifungals
  - Anti-infectives
  - Immunosuppressants
  - Hormones
  - Hypoglycemic drugs
  - Cholesterol-lowering drugs
  - Biosimilars
  - Peptides

➢ Food&feed Additives

➢ Nutrition Ingredients

➢ Cosmetic Ingredients

➢ Bio-pesticides

➢ Enzymes

Business Mode

International Technology Transfer

- Industrialized strain and technology package
- Technology demo (lab/ pilot/ industrial scale)
- Technology consulting
- Technology industrialization

Contract Manufacturing and Expert

- High value-added APIs
- Nutrition Ingredients
- Cosmetic Ingredients



CRO Platform for Synthetic Biology

- Strain: gene editing, cell culture, cell screening, design
- Process optimization
- Technology scaling-up

Cooperative Production

- Technology shares
- Technology License

Core Competitiveness

Market Insights and Rapid Response

- Long-term deep cultivation in the field of biochemical technology has accumulated rich market development capabilities.
- Based on a deep understanding of market dynamics, we can quickly adjust strategies to adapt to changing market demands.

International Channels and Market Experience

- Close communication with 300+ well-known companies in chemical and pharmaceutical industries in the world;
- Close cooperation with scientific research institutions, laboratories, engineering companies in more than 10 countries
- Rich experience in international market development

Biotechnology Storage

- Professional R&D engineers, industrialization experts and project management team;
- Hundreds of national advanced mature technologies in stock;
- R&D platform to provide demo and training in lab/pilot/industrial scale
- Flexible cooperation with brother factories through technology investment and product sales sharing

BioChemical Lab

Establishment: Aug. 2011

Facility:

Lab scale fermenters and corresponding extraction equipment

Function:

- Strain reserve and improvement
- Technology demonstration and technical support
- Fermentation and DSP process optimization
- Contract production of high value-added products





Synthetic Biology Platform

Provide synthetic biology CRO services to customers

BioChemical Laboratory: Facilities













Biochemical Laboratory: Cell bank













Partial Photos of Strains



Basidiomycota

担子菌侧耳属



Antibiotics producing strain

抗生素生成菌



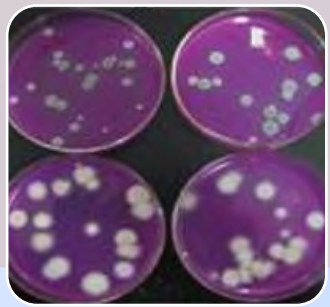
Escherichia Coli

大肠杆菌



Rhodobacter sphaeroides

类球红细菌



Cellulose decomposing strain

纤维素降解菌



Streptococcus zooepidemicus

兽医链球菌

Typical Leading Bio Technologies

Erythromycin	Dalbavancin	Docosahexaenoic acid (DHA)
Penicillin G	Vancomycin	Coenzyme Q10
6-APA	Fidaxomicin	β-Carotene
Amoxicillin	Daptomycin	Lycopene
Cephalosporin C	Sirolimus/Rapamycin	Astaxanthin
7-ACA	Tacrolimus	Glutathione (GSH)
Clavulanic acid	Ascomycin	Pyrro-quinoline quinone (PQQ)
Rifamycin	Caspofungin (semi-synthsis)	Human milk oligosaccharides (HMOs)
Kanamycin	Micafungin (semi-synthsis)	Insulin Degludec
Capreomycin	Anidulafungin (semi-synthsis)	Liraglutide
DMCT	Bacitracin zinc	P29 / Semaglutide
Avermectin	Vitamins	Tirzepatide
Tylosin	Amino acids	Recombinant Humanized Type Ⅲ Collagen

Synthetic Biology CRO Services

Prokaryotic cell



Eukaryotic cell



Basic chassis cell

Cell Culture

Cell Screening

Gene Editing

Feedback

Design

Genomics

Biological component

Metabolic pathway

Fermentation

Purification

Bio-based product

API

Functional food ingredients

Cosmetic ingredients

Health Nutrition

Other Bioactive macromolecules

Products

Over the past 23 years, we have transferred advanced technology to domestic and international clients, which has been commercialized in their factories.

Through rigorous quality control, we provide global customers with the best quality products manufactured with our advanced technologies in China.

In Russia, our advantage is that our local Russian subsidiary's team can provide subsequent logistics and after-sales support.








Fields:

- Food&feed additives
- Nutrition ingredients
- Cosmetic ingredients
- Pharmaceuticals (APIs and Intermediate)

APIs and Intermediates

Erythromycin	Gentamicin B
Gentamicin C	Rifamycin
Amikacin	Dalbavancin HCl
Fidaxomicin	Polymyxin B
Fosfomycin	Fusidic acid
Mupirocin	Oritavancin
Anidulafungin	Sirolimus
P29 / Semaglutide (R&D)	Tirzepatide (R&D)
Tacrolimus	Ascomycin / Pimecrolimus
Mitomycin	Staurosporine / Midostaurin
Epothilone B	Bleomycin
Doramectin	Spinosad

Contact us for more APIs and intermediates products.

Nutrition

Akkermansia muciniphila (AKK)	Vitamin K2 MK-7
Coenzyme Q10 (Reduced form)	Vitamin B12
Coenzyme Q10	Vitamin B2
Phosphatidylserine (PS)	γ-Aminobutyric acid (GABA)
Docosahexaenoic acid (DHA)	Ergothioneine (EGT)
Coenzyme Q10	Pyrroloquinoline quinone (PQQ)
Astaxanthin	Glutathione (GSH)
Beta-Carotene	Lycopene
Nattokinase	Quercetin
Liposome products	

We can also provide OEM service for the formulation of some products.
Contact us for more nutrition products details.

Cosmetics

Recombinant Humanized Type Ⅲ / XVII Collagen	Squalene
(-)-α-Bisabolol	Salidroside
Pro-xylane	Ectoin
Nicotinamide	Ceramide
Polydeoxyribonucleotide (PDRN)	Botulinum Toxin (BT)
Dipeptide Diaminobutyroyl Benzylamide Diacetate (SYN-AKE)	γ-Polyglutamic acid (γ–PGA)
Low Molecular Weight Hyaluronic Acid (LMWHA)	Poly-L-lysine
Inositol	L-Fucose

Contact us for more cosmetic products.

Thank You!

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