



Readline Biotech Introduction

Green Technology, Healthy Life

Company Overview

Founded in **2017** in Shenzhen China 

3 Manufacturing bases 

12% employees 

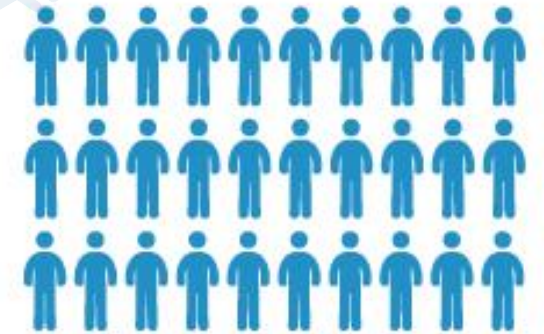
3+3 markets
served and expanding

50% employees
with MA & PhD degrees

10 top scientists
with nation certified talents



30+ experts
with 15+ years experience



End-to-End Innovation Capability



Application Research Capabilities

Industrialization Capabilities

Commercialization Capabilities

Intelligent Biotech Platform



AI



Genetic engineering



Enzyme



Culture



Fermentation



Automatic laboratory



Chemical selection



Test & analyze

Manufacturing Sites



- 1000 m² GMP scale-up plants
- Nanshan, Shenzhen
- Kilogram scale production

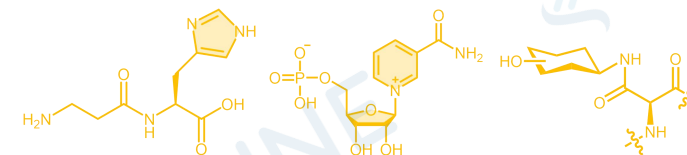


- 6000 m² production site
- Baiyin, Gansu
- Tens of tons capacity



- 11000 m² production site
- Zhuhai, Guangdong
- Hundreds of tons capacity

Life Molecules



Peptides, polysaccharide, nucleic acids and coupled molecules

Applications



Biomedicine



Personal care



Nutrition & health



Animal health



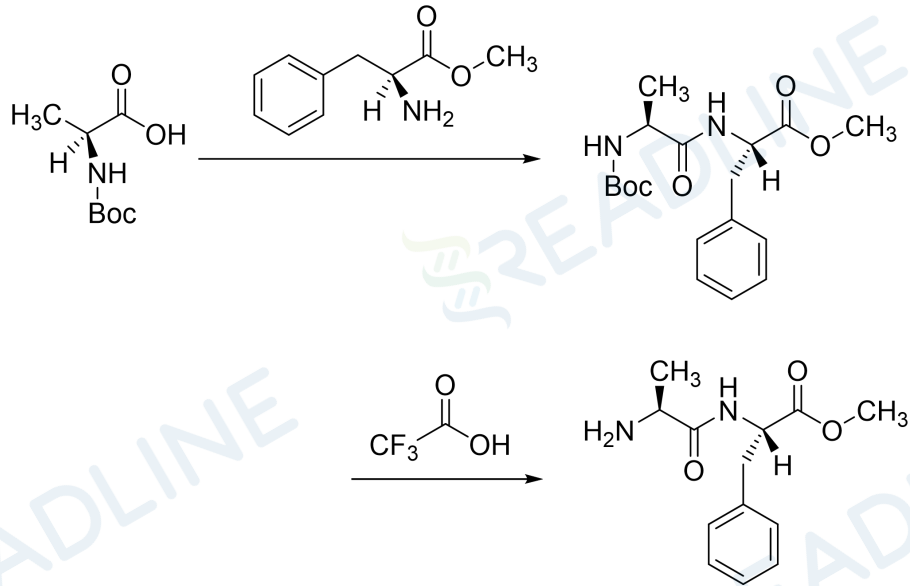
Green agriculture



Bio materials

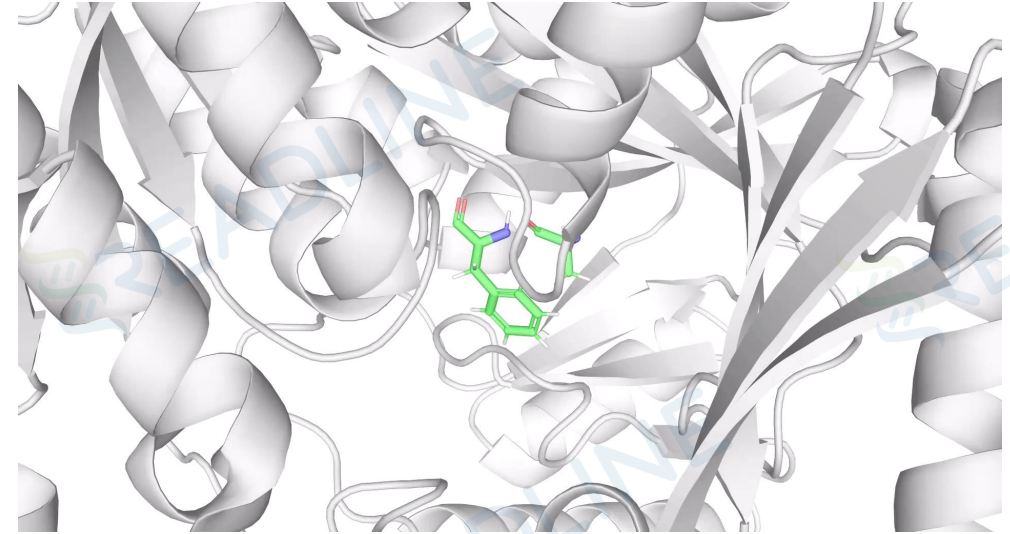
The advantages of synthetic biotechnology: Low cost, Good quality, environment friendly, Stable capacity

Chemosynthesis



- Long process route, Cumbersome operation process, poor stability intermediates, racemic mixtures appear, difficult purification, low production capacity
- Protected amino acid, coupling reagent, Deprotection reagent are expensive; High amount of using organic solvent

enzymatic



- Amino acid as raw material, low cost, hundred tons capacity
- Mild reaction conditions, water environment, No organic, toxic or harmful reagents, more easily purification, no solvent residual, no objectional odor
- High reaction efficiency, high Substrate conversion >95%, High purity product, good stereoselectivity

Our Leading Technology For Green and Health



Energy

Consumption

>15% ↓



Air

pollution

>50% ↓



Operation

cost

>9% ↓



Material

Consumption

>35% ↓



Water

pollution

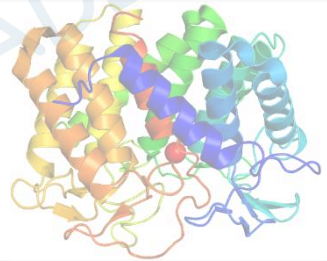
>33% ↓



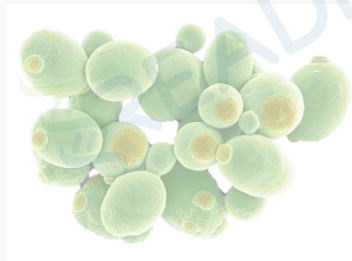
CO₂

emission

>1B ton/yr ↓



High productivity with
enzyme catalyst



Active molecules from
metabolites of
microorganisms



Low cost raw materials
(starch, amino acids, and
carbohydrates)



Mild reaction conditions,
easy to scale up and low
waste emissions

Markets We Serve and Our Offerings

Personal Care

Major products:

Polysaccharides

- Hydroxypropyl Tetrahydropyrantriol
- Ectoin

Peptides

- Copper tripeptide-1
- Decarboxy Carnosine HCL
- Acetyl hexapeptide-8
- Dipeptide Diaminobutyroyl Benzylamide Diacetate
- Biotinoyl tripeptide-1

Accept product customizations...

Bio medicine

Major products:

Peptides

- Semaglutide & side chains
- Tirzepatide & side chains

Amino acids

- Fmoc / Boc protected amino acids

Accept product customizations...

Nutrition & Health

Major products:

Peptides

- Glutathione, Reduced
- L-Carnosine

Amino acids

- L-Ergothioneine

Nucleic acids

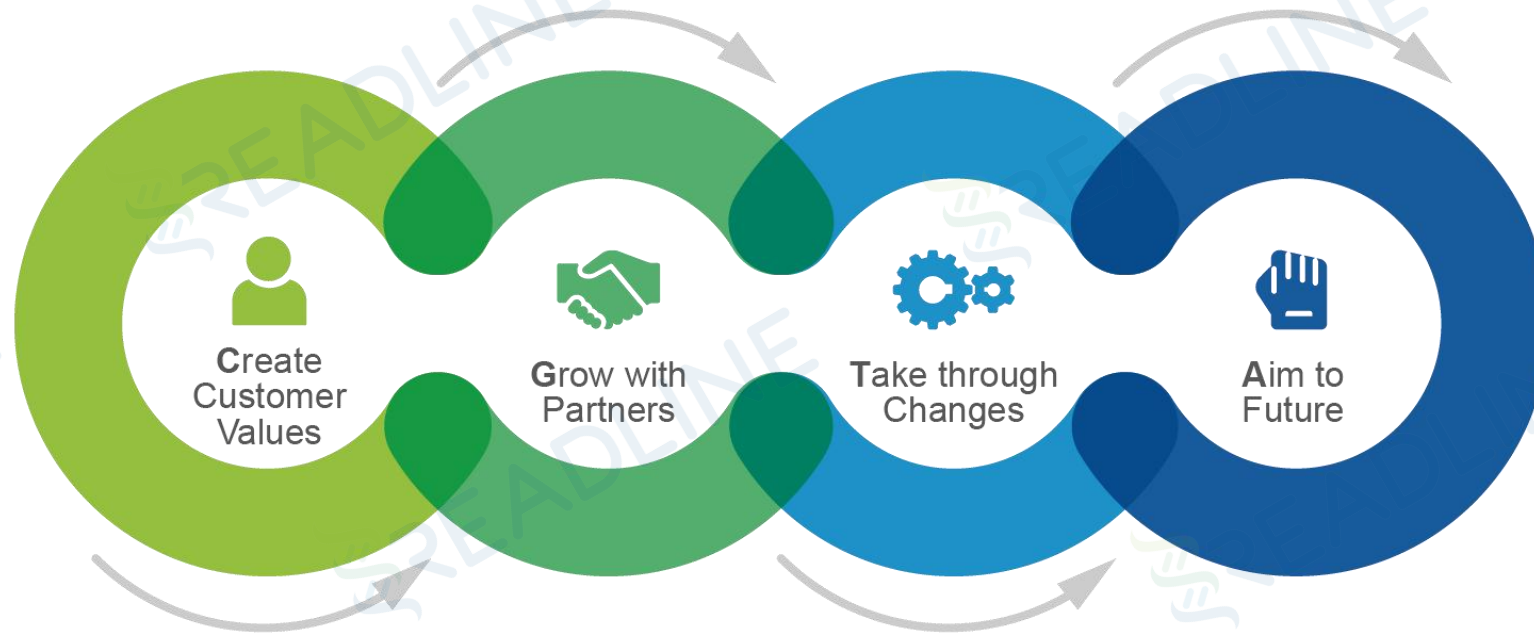
- β -Nicotinamide Mononucleotide (NMN)

More to come...

Future Markets

- Amino acids
- Peptides
- Polysaccharides
- Other life molecules

Our Core Value





Green Technology, Healthy Life

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