IR Book | Aug. 2025

Dong-A Socio Group

ST Pharm



Cautionary Statement regarding Forward-looking Statement

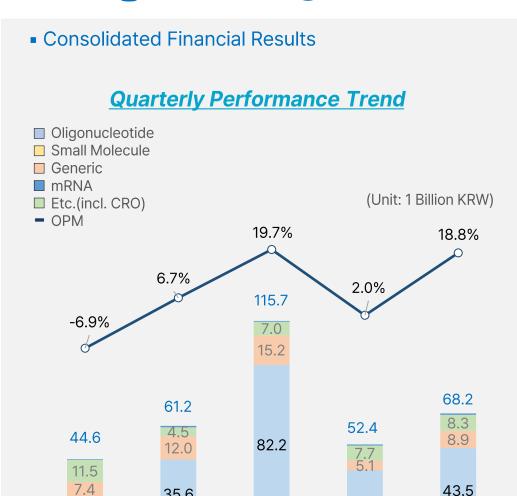
This presentation contains forward-looking statements from Dong-A Socio Group ("the Group") that include, but are not limited to, statements regarding our future financial performance, business strategies, market opportunities, product development, and operational plans. Words such as "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "project," "will," and similar expressions are intended to identify such forward-looking statements.

These forward-looking statements are based on our current expectations and beliefs concerning future developments and their potential effects on the Group. Such forward-looking statements are inherently subject to risks, uncertainties, and assumptions that could cause actual results to differ materially from those expressed in these forward-looking statements.

We caution investors not to place undue reliance on any forward-looking statements. These statements speak only as of the date they are made, and we undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by law. Additionally, please note that the financial figures and metrics presented in these Investor Relations materials are preliminary and have not yet been audited by an independent auditor. These numbers may be subject to change in future finalized disclosures.

Earning Result ()

2025 2Q Financial Statement (Preliminary)



37.6

1Q25

2Q25

1.1

10.9

4Q24

35.6

3Q24

8.8

23.8

2Q24

1.6

Financial Statement

2Q Revenue \(\psi 68.2\text{B}\), Operating Profit \(\psi 12.8\text{B}\), Net Profit \(\psi 4.7\text{B}\)

- 1) Revenue growth driven by major commercial projects from CDMO business Operating profit boosted from high-margin products & large sales volume
- 2) Reiterate annual revenue guidance of ₩320bn. Minor losses expected from CRO

(Unit: 1 Billion KRW)

Category	′25.2Q	'24.2Q	2024	YoY
Revenue	68.2	44.6	273.8	52.8%
Cost of Goods Sold	37.0	29.3	177.6	26.3%
Gross Profit	31.1	15.3	96.2	103.7%
SG&A Expenses	18.3	18.3	68.5	-0.2%
R&D Expenses	6.1	6.1	22.1	0.2%
Operating Profit	12.8	-3.1	27.7	-
Net Profit	4.7	0.9	32.5	420.7%
Gross Profit Margin	45.7%	34.3%	35.1%	11.4%p
Operating Profit Margin	18.8%	-	10.1%	-
Net Profit Margin	6.9%	2.0%	11.9%	4.9%p





2025 2Q Financial Results by Segments (Preliminary)

Business Segment Breakdown

(Unit: 1 Billion KRW)

S	ector	'24.2Q	'24.3Q	'24.4Q	'25.1Q	'25.2Q	YoY
Oligo.	Subtotal (% of Revenue)	23.8 (53.3%)	35.6 (58.1%)	81.3 (69.7%)	37.6 (71.7%)	43.5 (63.8%)	83.0%
CDMO	Commercial	13.1	29.6	62.9	32.4	37.2	184.1%
	Clinical	10.7	5.9	18.5	5.1	6.3	-41.1%
	olecule API SMA)	1.6	8.8	10.9	1.1	6.7	312.2%
m	nRNA	0.3	0.8	0.4	0.6	0.7	177.0%
Gener	ic API (GA)	7.4	12.0	15.2	5.3	8.9	19.7%
0	thers	0.5	0.0	0.4	0.0	0.0	-97.9%
	parate venue	33.6	57.2	109.1	44.7	59.8	77.8%
Subsid	iaries (CRO)	11.0	4.5	6.6	7.7	8.3	-23.8%
	olidated venue	44.6	61.2	115.7	52.4	68.2	52.8%

Comments

Oligo API business sales increased 83.0% YoY

- Oligonucleotide API Oligo Backlog Value ≈ \$235M Stable sales generated from commercial projects Majority of clinical project sales focused in 4Q
- Earlier-than-planned operations for 2nd Oligo Plant Small-scale clinical trial batches production in 3Q GMP, commercial projects produced from 4Q onward
- Oversea Subsidiaries KRW 0.2 bn losses from CRO and other subsidiaries P/L of CROs near BEP level in 2Q, resulting from costcutting measures
- Anticipated Events in 2025 [Oligo] HAE project (Client, Approval), FCS/sHTG project (Client, P3 results), 2nd Oligo Plant Operation [SM] Mitochondrial deficiency project (Client, Approval) [Pipeline] Pirmitegravir P2 interim results



Introduction



Introduction

Summary

(By end of 2024)

Establishment 1983

Equity 503 Billion KRW

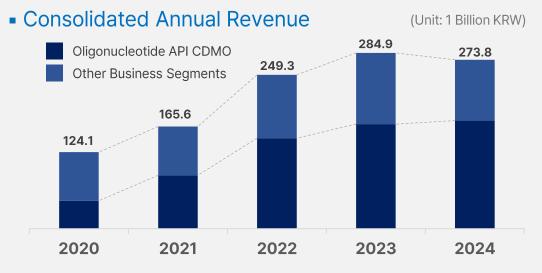
Employees 664

Revenue 274 Billion KRW (Overseas 79%, Domestic 18%)

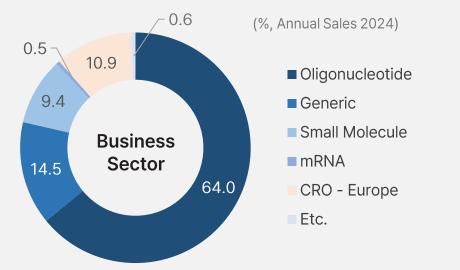
Shareholders Affiliated / Affiliated Persons hold 38.7%

API CDMO specializing in xRNA Therapies

- Major global player in Oligonucleotide API CDMO
- CDMO service ranging from Small Molecule to xRNA
- Solid records in both CDO and CMO areas

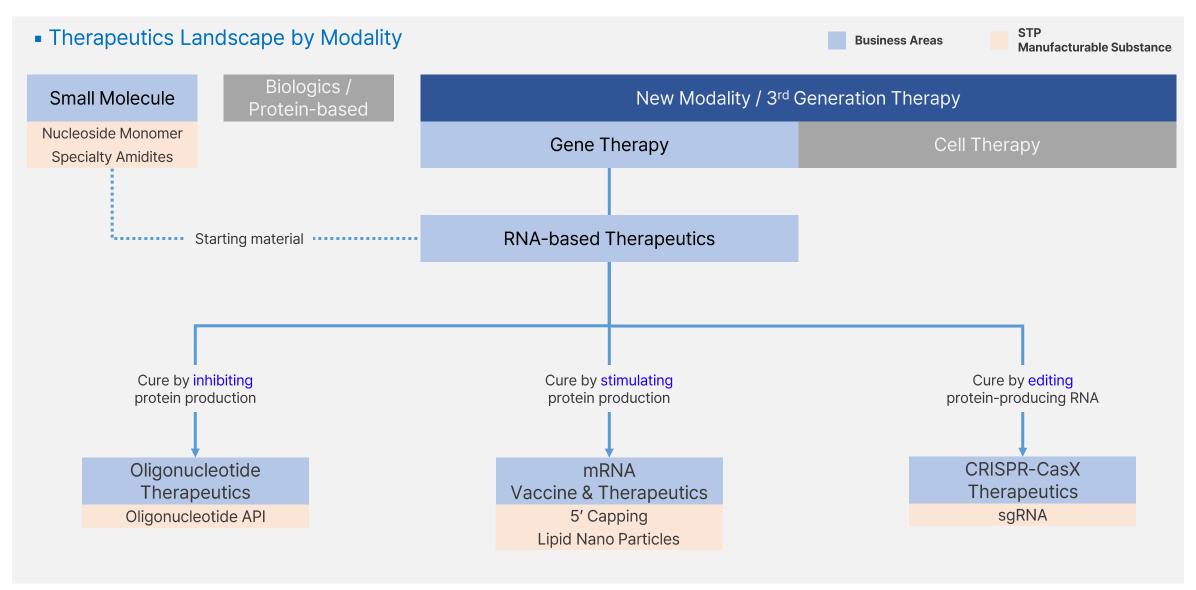


Revenue Breakdown





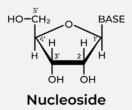
Introduction to Core Business Areas

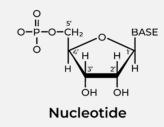




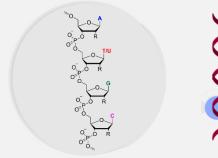
History & CDMO Records

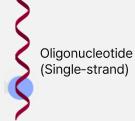
Nucleosides API





Oligonucleotide API





xRNA CDMO Platform



CDMO specializing in small-molecule nucleoside APIs for anti-viral medications

API Supplier of

GSK Thymidine GSK Zidovudine Novartis Telbivudine Gilead Sofosbuvir

Integrated value chain from nucleosides to phosphoramidites

2018

First commercial-scale Oligo Plant

2022

NAI grade from US FDA PAI Inspection

2023

- US FDA Inspection for Banwol Site
- 2nd commercial-scale plant (under construction)

2024

3rd Commercialized Oligo CDMO received US FDA Approval

2023

Commercial-scale mRNA production facility

2024

- Application of STLNP® Patent(PCT)
- Supply Agreement with Quantoom Bio.
- Completion of in-house developed 5'-Capping (SmartCap®)

2025

mRNA Partnership with Evonik AG (SmartCap®)

Market

[Referred Source: Cortellis, 2023]



Oligonucleotide Therapeutics & CDMO Market

Oligonucleotide Market Growth Forecast

Therapeutics market size to achieve **double-digit growth** through 2030, with CDMO market reflecting ≈15% of downstream market

R&D landscape expanding to target diseases with larger population → from rare & hereditary to chronic diseases (CVD, metabolic, etc.)

[Pipelines targeting diseases with larger population increasing] **Global Oligo Global Oligo** Rare Disease 289 311 **Therapeutics Market CDMO Market** 397 Anti-infective _ 251 284 Anticancer - 209 **CAGR** 185 Neurological ≈ 18% - 149 Alimentary/Metabolic 127 Musculoskeletal **CAGR** Unspecified ≈ 17% Cardiovascular 58 Respiratory **2024** (1,261 in Total) Sensory \$22B **2023** (1,016 in Total) Immunological \$3B Blood/Clotting Dermatological \$7B Genitourinary \$1B Miscellaneous Antiparasitic -2023 2030 2023 2030 Hormonal

[Referred Source: American Society of Gene and Cell Therapy]



Business Overview



Production Facility (GMP)

Overall Capacity

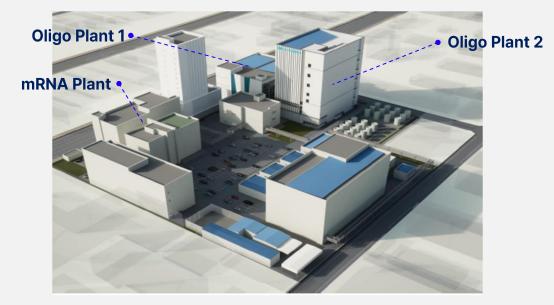
Facility	Chemical Plant	Oligo Plant	mRNA Plant
Facility	SM, Generic, Monomer	Oligonucleotide API	mRNA, Lipid Nano Particles
Equipment Status	96 (Reactors)	6 (Lines)	-
Total Capacity	376,250 L	6 ~ 8 moles*	Max. 100M Dose/Year

^{*} Include Plant 1 and Plant; Plant 2 operational since July 2025

View of Siwha Campus



View of Banwol Campus

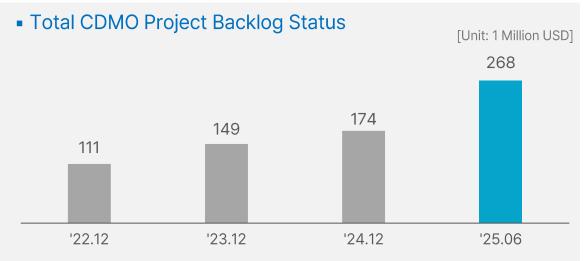


^{**} Additional expansion of Plant 2 planned during 2027 ~ 2028



CDMO Business – New Drug API

Ma	ajor CDN	MO Projects				
#	Client	Indication / Target Disease		Sta	age	
#	Client	indication/ rarget Disease	P1	P2	Р3	Approved
Olig	onucleoti	de API				
1	Client A	Hyperlipidemia				
•	Client A	CVRR	└ Indi	ication expa	ansion	
2	Client B	Spinal Muscular Atrophy (SMA)				
•	Client C	Myelodysplastic Syndrome (MDS)				
3	Client C	Myelofibrosis (MF)	→ Indi	ication expa	ansion	
A	Client D	Familial Chylomicronaemia Synd.				
4	Client D	Severe Hyper-triglyceridema	→ Indi	ication expa	ansion	
5	Client D	Hereditary Angioedema				
6	Client A	Atherosclerosis				
7	Client F	IgA Nephropathy				
8	Client E	Chronic Hepatitis B				
9	Client F	Chronic Hepatitis B				
10	Client F	Huntington's Disease				
Sma	ıll Molecul	e API				
11	Client G	Not disclosed				
12	Client H	Mitochondrial Dysfunction				



Oligo CDMO Project Backlog Status (as of Apr. 25)

[Unit: 1 Million USD]

Category	End of 2022	End of 2023	End of 2024	Newly Added in 2025
Commercial	13.2	36.1	106.5	44.7
Clinical	67.2	81.4	47.7	37.4
Total (Accumulated)	80.4	117.4	154.2	236.3

^{*} Backlog status based on date of Product Order receival

^{**} Commercial/Clinical project determined based on date of pipeline's new drug approval

^{***} CHF/USD = 1.20 for "Newly Added in 2025"



CDMO Business – mRNA Platform

■ In-house Platform Technologies

SmartCap® (Stability)

- Registered patent in Korea
- Ongoing PCT International Patent Publication
- Over 30 capping analogues → highly customizable
- Efficacy & Safety data through STP-2104 clinical trial

UTR Coding Sequence UTR Poly(A)n Capping (SmartCap®)

Supply Agreements & Partnerships:

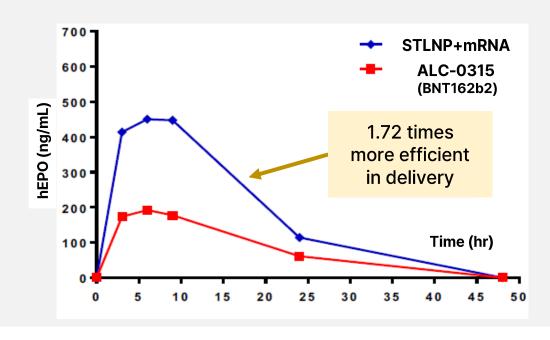




Jan. 2025

STLNP® (Delivery)

- Ongoing PCT International Patent Publication
- Delivery efficacy data observed from nonclinical study





Technology & Pipeline

Technology •



Enzymatic Ligation for Oligonucleotide CDMO

Development of Enzymatic Ligation approach to revolutionize API production at scale...

Our Approach

- 1) Synthesize monomers into shortmers instead of phosphoramidites as individual building blocks
- 2) Synthesize shortmers into full-length oligo APIs through enzymatic ligation
- * Ongoing joint research with global pharmaceuticals/clients for commercialization of technology

Why it matters

- Improves scalability & lowers production cost
- Eco-friendly, by using non-chemical organic solvents (ex. water)
- Allow efficient synthesis of longer-length oligomers/oligonucleotides

[Solid Phase OS] [Enzymatic Ligation OS] **Oligonucleotide Synthesis** (ASO) Coupling Oxidation Deblocking Repeat x Times

[Source: Twist Bioscience]





sgRNA Chemical Synthesis for CRISPR-Cas CDMO Service

sgRNA synthesis in response to CRISPR-Cas demands

Successful manufacturing of 100-mer sgRNA

- Backed by +20 years of expertise in oligo-/nucleotide synthesis and development of analytical methods
- In-house capability from synthesis-purification to analysis

Ongoing developments and production augmentation

- 130-mer sgRNA development work-in-progress
- On schedule for installing dedicated line during 1Q.2025



[100-mer sgRNA Purification Results]

As of Oct. 2024

Length	Modification	Crude (Pre-Purification)	Post Purification
100 mer	2'-OH	7~17 %	79~87%*

^{*} Major competitor Target purification ≥ 80% (100-mer)

[Production Facility Status (GMP)]

Status	Line	Capability
Installed	R&D Lab Line* (non-GMP)	50 µmol ~ 1.2 mmol
Installed	Small-scale Line*	1.2~20 mmol
Planned	Small-scale Line [sgRNA-dedicated]	1.2 mmol scale

^{*} Currently utilizing two installed lines for both oligonucleotide & sgRNA synthesis

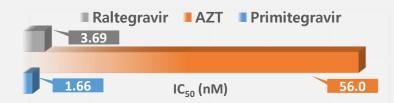
[Source: AnalystView Market Insight]

Pipeline



STP0404 - ALLINI Mechanism HIV Treatment

Anti-viral Efficacy (Preclinical, Cell Line MT-4)



Anti-viral Efficacy against Resistant HIV (Preclinical)

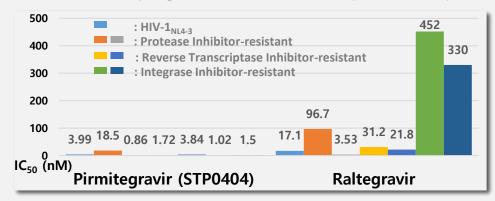


Table 3. Antiviral activity in Raltegravir-resistant strains

Compounds	Average IC₅₀ (range, nM)			
Compounds	PBMC	MT-4		
STP0404	0.08 (0.02~0.22)	2.49 (0.95~3.48)		
Zidovubine	7.96 (0.22~20.7)	37.94 (29.7~57.6)		
Raltegravir	1,227.70 (12.5~3,036)	2525 (351~4,322)		
Elvitegravir	-	2751.5 (276~10,000)		
Dolutegravir	-	4.57 (3.07~8.54)		
RAL-resistant strains: 4736_2, 4736_4, 5070_1, 5070_2, 1566_1				

- ~33 times higher anti-viral efficacy vs. existing treatments
- High Safety Data results over HIV-1
 Therapeutic Index(TI): STP0404 > 6,020 (Raltegravir > 2,710)
- Existing HIV/AIDS therapies are "inhibitors" of HIV activities
- This induces continuous drug resistance
 (+ no drug with new mechanism for over 10 years)
- STP0404 showed anti-viral efficacy against resistant HIV

Phase 2a (U.S.) Clinical Trial Details (NCT05869643)

- Evaluation of antiviral effect, safety, tolerability, and pharmacokinetics in adult participants with HIV-1infection
- Randomized, Double-Blinded, Placebo-Controlled,
 Multicenter Study
- Approximately 36 enrollments (Jul. 2025)
- Arms: Cohort 1 (low-dose), Cohort 2 (medium-dose),
 Cohort 3 (high-does) + Placebo Comparator for each Cohorts

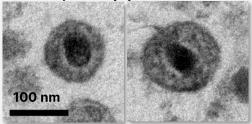
Pipeline



STP0404 - New Mechanism for Potential Functional Cure

STP0404 Mechanism of Action

Before Injection (A)



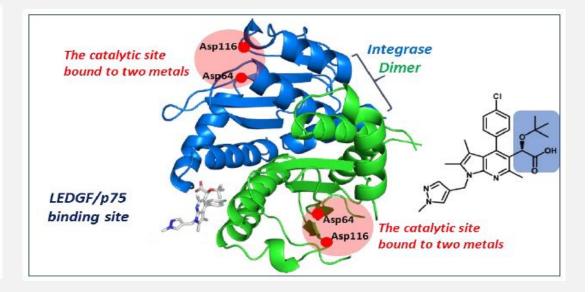
After STP0404 0.2µM Injection (B)

Infectious HIV-1
without inhibitor

Integrase integrase viral RNA
nucleocapsid
capsid
matrix

Kessl et al., Cell, 2016, 166, 1257

STP0404 X-ray Structure



TEM study in Emory Univ.

- New mechanism ALLINI (Allosteric integrase inhibitor) founded by Prof. M. Kvaratskhelia (Univ. of Colorado) in 2016
- HIV-1 integrase binds the viral RNA genome and plays an essential role during virion morphogenesis (A)
- ALLINI induces aberrant integrase(IN) multimerization and binds to viral RNA, leading to mislocalization of viral RNA (B)
- STP0404 leads to mislocalization of vRNP* complexes outside the viral capsid, allowing the formation of non-infectious HIV-1 (B)
- New MOA for HIV-cure as "maturation inhibitor" "Divide and Conquer", not 'Shock & Kill' or 'Block & Lock"
- Identification of ALLINI mechanism supported by US NIH grants in 2018. Collaboration with Emory University & University of Colorado Boulder

^{*} Viral ribonucleoprotein



Appendix

Market



RNA-based Therapeutics Concept

Overview

RNA Therapeutic is 3rd-Gen therapy that allows a more fundamental treatment by silencing or inhibiting expression of disease-inducing protein Only 3% of all DNAs is transcribed to proteins via mRNA The remaining 97% is transcribed to RNA Most RNA functions unidentified Forest potential RNA-related treatments

RNA-based Therapeutics

Mechanism: Inhibits expression of harmful proteins RNA

Types: Anti-sense (ASO), siRNA, miRNA etc.

Examples: Spinraza (Ionis / Biogen) Spinal Muscular Atrophy

Leqvio (Alnylam / Novartis) Hereditary Hyperlipidemia

Characteristics of RNA-based Therapeutics

Strengths: High selectivity over target proteins

Quick & cost-effective development ≥ 2yr of Pre-clinical phase

Very low tolerance

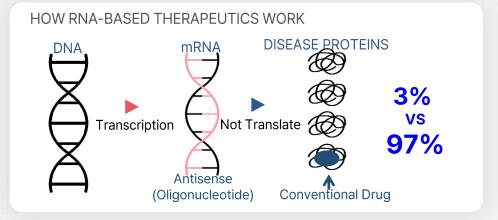
Excellent drug persistence Legvio 6-months

Lower drug price ► Leqvio ≥ U\$4,000 while Repatha = U\$5,850

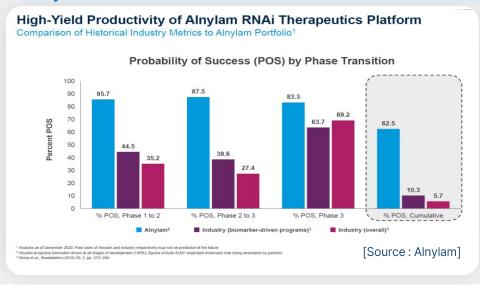
Weaknesses: Difficulty in delivery to organs/cells apart from liver or brain Require delivery technology such as LNP etc.

New methods: Avidity's Antibody oligonucleotide conjugates Difficulty in mass production ⇒ Few capable CDMO companies

Central Dogma & Non-coding DNA



Alnylam's siRNA Clinical Trial Success Rate: 62.5%



Dong-A Socio Group

Dong-A Socio Holdings





Introduction

Summary

As of 2024

Business Area Conglomerate (Group management)

Affiliated Share 30.29%

HQ Seoul, Republic of Korea

Employees 82

Market Cap. 740 Bil. KRW

Asset/Equity 2.03 Tril. KRW / 31.7 Bil. KRW

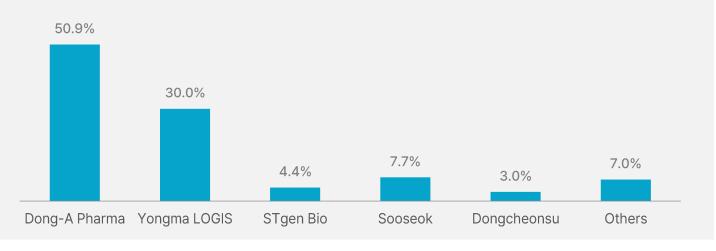
History

- 1932 Establishment / 1970 Initial Public Offering
- 2010 Acquired Samchully Pharm (ST Pharm)
- 2013 Transition to Holdings Company
 : Dong-A ST(Spin-off), Dong-A Pharma(Split-off)
- 2016 ST Pharm IPO / 2021 Acquired Stgen Bio
- 2025 Sooseok-Dongcheonsu Merger

Subsidiary Overview



Subsidiaries' Revenue Share

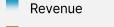


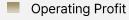


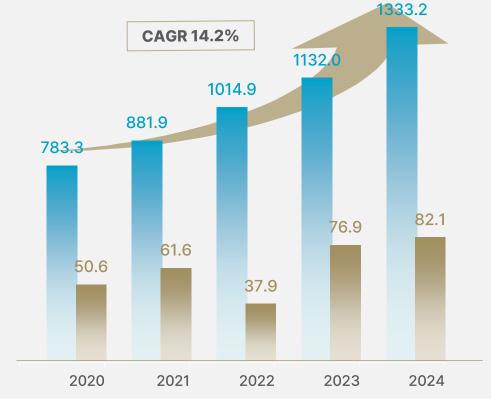
Consolidated Financial Results

Revenue and Operating Profit Trend

[Unit: 1 billion KRW]







Comments

2020~2024 Revenue CAGR 14.2%

Revenue growth mainly driven by Dong-A Pharma and Yongma LOGIS STgen Bio to be the Group's next growth driver as biosimilar CMO

Summarized Financial Statement

	2023	2024	1H24	1H25	Yoy
Revenue	1132.0	1333.2	629.4	675.3	7.3%
Cost of Goods	757.1	925.2	430.1	454.3	5.6%
SG&A Expense	298.0	326.0	161.4	171.9	6.5%
Operating Profit	76.9	82.1	37.9	49.1	29.7%
Equity Method G&L	21.3	19.3	-	-	-
Net Income	55.9	57.6	-	-	-
ОРМ	6.8%	6.2%	6.0%	7.3%	1.3%p
NPM	4.9%	4.3%	-	-	-



Dong-A Pharmaceutical

Overview



- Wholly-owned subsidiary
- Main Business : Bacchus, OTC drug,

Health Functional Foods

- HQ : Seoul, Republic of Korea
- Establishment : Mar. 2013
- Employees : + 1,000
- Asset / Equity: 380 Bil. KRW / 30 Bil. KRW

Comments

2020년~2024 Revenue CAGR 13.1%

Korea top-selling vitality/energy drink Bacchus & premium vitamin Orthomol leading growth Recent Skincare OTC products emerging as new driver (acne cream, etc.)

Financial Statement

[Unit: 1 billion KRW]

	2023	2024	1H25
Revenue	631.0	678.7	351.7
Cost of Goods	307.8	330.5	172.9
SG&A Expense	243.7	263.0	138.0
Operating Profit	79.6	85.2	40.7
Operating Profit CoS(%)	79.6 48.8%	85.2 48.7%	49.2%

Business Areas

	2023	2024	1H25	%
Bacchus	256.9	264.6	124.0	35.2%
отс	153.0	177.2	110.5	31.4%
Panpyrin	47.9	46.5	22.9	-
Skincare	38.2	52.8	35.5	-
Health Func.	200.3	208.0	100.1	28.5%
Orthomol	120.4	130.2	61.5	-
Garglin	31.2	30.0	15.3	-
Others	20.9	28.9	17.1	4.9%
Fation	13.2	21.3	11.6	-
Total	631.0	678.7	351.7	100.0%



STgen Bio

Overview



• Ownership: 80.4%

• Main Business : Biologics CMO Service

• Products: DA-3880, DMB-3115, etc.

• HQ : Songdo, Incheon

• Establishment : Apr. 2015

• Employee: + 300

• Asset / Equity: 167 Bil. KRW / 19 Bil. KRW

Comments

cGMP/GMP Certification (EMA, FDA) with Groundworks for Global CMO

Turn around to operating profit after approval of Stelara BS. Shipments planned in '25 (EU, US) Receiving multiple RFPs after setting global track record. +14 Bil. KRW of PO from new clients in '25.

Production Facility

Catego	ory	STgen Bio
Business Foc	us(CMO)	Biosimilar
Production Capacity	DS	9,000 L USP 2,500 L (3-suite) USP 1,000L (1-suite) USP 500L (1-suite)
- 5 ₁ 1 3 3 3 3	DP	PFS 10,800 syr/hr
Biologics Revenue(2		58,900 Mn KRW
cGMP Certif	fication	FDA/EMA(2024) Approval

Financial Statement

	2023	2024	1H25		
Revenue	51.4	58.9	44.1		
Cost of Goods	53.8	52.4	35.2		
SG&A Expense	4.1	4.7	2.8		
Operating Profit	-6.4	1.7	6.1		
Operating Profit CoS(%)	-6.4 104.6%	1.7 89.0%	6.1 79.8%		
CoS(%)	104.6%	89.0%	79.8%		



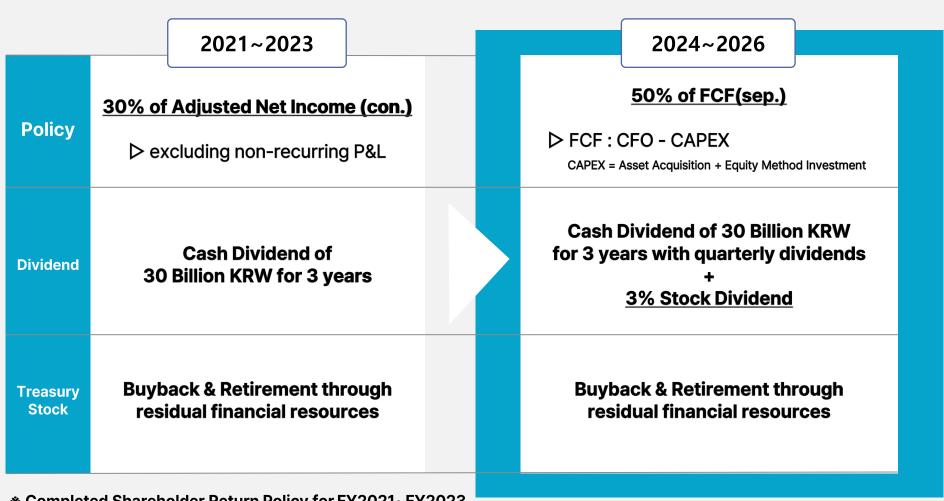
Major Subsidiaries' Financial Statement

Company		Annual				Quarterly			
		2022	2023	2024	2Q24	3Q24	4Q24	1Q25	2Q25
Dong-A Pharma	Revenue	543.0	631.0	678.7	175.6	179.5	165.1	170.1	181.6
	Operating Profit	67.1	79.6	85.2	21.0	22.1	22.7	16.9	23.9
STgen Bio	Revenue	27.9	51.4	58.9	7.6	16.8	22.9	19.1	25.0
	Operating Profit	-15.7	-6.4	1.7	0.1	0.9	0.4	1.9	4.3
Yongma LOGIS	Revenue	345.3	355.9	400.4	101.7	102.3	104.8	100.9	100.7
	Operating Profit	6.6	13.8	19.0	7.9	4.3	4.8	4.3	4.9
Dong-A Ecopack (Sooseok)	Revenue	105.1	104.3	103.1	26.3	27.0	26.0	23.9	34.2
	Operating Profit	-3.5	2.4	-3.6	-1.4	-1.0	0.5	-0.5	-0.7
Dong- cheonsu	Revenue	32.9	34.0	39.6	10.2	11.1	9.0	8.7	3.9
	Operating Profit	1.0	-1.4	-6.4	-1.3	-1.5	-2.1	-1.9	-0.5

^{*} Sooseok merger of Dongchoensu in Apr. 30. 2025. Sooseok company name changed to Dong-A Ecopack



2024~2026 Shareholder Return Policy



- * Completed Shareholder Return Policy for FY2021~FY2023
 - → Total of 32.5 Bil. KRW (FY2021년 9.4 Bil. KRW, FY2022년 9.4 Bil. KRW, FY2023 13.8 Bil. KRW)

Thank You Dong-A Socio Group

