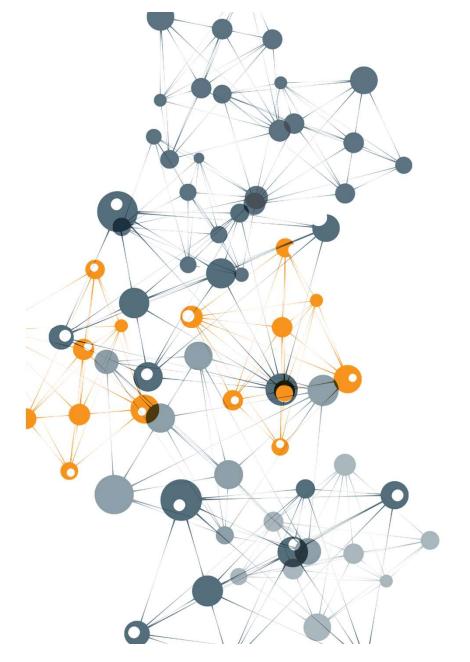
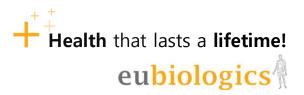
**OCV WG** 





Vaccine for Infectious Diseases and Immuno-Oncology Development & Manufacturing

2021 OCV Production Plan



www.eubiologics.com

## **Company Overview**



## **Company Profile**

Establishment	10 March 2010
Business Place	HQ: Seoul Facility - 2 Manufacturing sites in Chuncheon - R&D Center in Chuncheon
No. of Employee	Over 200
Market Cap	USD 55M Listed in KOSDAQ since Jan 2017
Business Area	<ul><li>Vaccine Development, Manufacturing</li><li>&amp; Supply</li><li>CRMO(Contract R&amp;D and</li><li>Manufacturing Organization)</li></ul>

### **CEO Profile**



#### Dr. YEONGOK BAIK

- Bachelor, Master in Veterinary Medicine,
  Seoul National Univ.
- Ph.D. in Life Science, Korea Univ.
- QA General Manager, CJ Corporation
- Director, Korea Institute of Industrial Technology

### **CEO Profile**



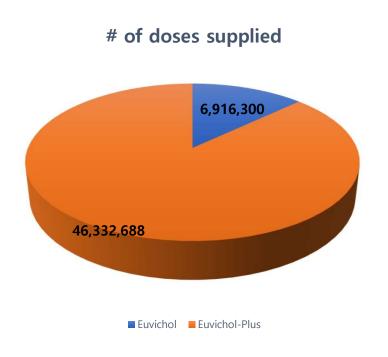
#### **SEUKKEUN CHOI**

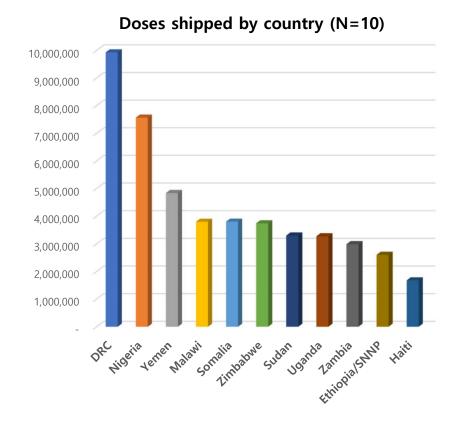
- Bachelor in Microbiology, Seoul National Univ.
- Green Cross Corporation
- CJ Corporation
- General Manager, LG Life Sciences
- Director of Plant, Meditox

## **Euvichol-Plus Shipment History**



EuBiologics has supplied about 53M doses of Euvichol and Euvichol-Plus to cholera endemic/outbreak countries through UNICEF.





# **OCV Production Capacity**



EuBiologics is able to produce 29M doses of Euvichol-Plus in 2021, subject to the award by UNICEF.

#### 2020 Production\*

Production(Unit:Mil)	Dec('19)	Jan('20)	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Euvichol-Plus	6.85	1.76	1.42	1.94	0.18	-	F	-	ন	1.42	1.60	0.35		8.68
Shipped quantity		0.01	1.86	0.75			2.26	4	0.01	1.04	0.01	5.05		10.99
Stockpile (Monthly)	6.85	8.60	8.16	9.35	9.52	9.52	7.26	7.26	7.25	7.64	9.23	4.53	4.53	

<sup>\*</sup>Rolled over quantity of 6.85M doses excluded from total production in 2020

## **OCV Expansion**



EuBiologics has been working on OCV facility expansion to double the production capacity, up to 50M doses. GMP production is expected in Oct 2022.



### OCV Expansion Timeline (exp.)

No.	Process Breakdown	Start	Finish	Duration (Month)
1	Design	Nov '19	Dec '19	2M
2	Construction	Jul '20	Dec '20	6M
3	Equipment Purchase	Nov '19	Dec '20	14M
4	Qualification	Jan '21	Mar '21	3M
5	Process Validation	Apr '21	Aug '21	3M
6	Comparability Study	Jul '21	Sep '21	3M
7	Licensure by MFDS	Oct '21	Mar '22	6M
8	Variation Approval by WHO	Apr '22	Sep '22	6M
9	<b>GMP Production</b>	Oct '22		

# **Registration Status of Euvichol-Plus**



No.	Country	Registration approved (Y/N)	Approval date	Remarks
1	Republic of Korea	Υ	Mar 2017	Export only
2	WHO PQ	Υ	Aug 2017	-
3	Zambia	Y	Feb 2020	
4	Caribbean Regulatory System (CARPHA/CRS)	Υ	Apr 2018	Haiti included in CRS
5	Nepal	Υ	May 2018	
6	Nigeria	Y	Jul 2018	
7	Malaysia	Y	Dec 2019	
8	Pakistan	N	-	Drug pricing registration ongoing
9	Uganda	N		Site inspection expected
10	Mozambique	Y	Sep 2019	
11	Myanmar	Y	Mar 2020	
12	Philippines	N	-	
13	DRC	N		Dossier submitted in Feb '18
14	India	N		Bridging study expected soon