



Work Together. Stop Transmission. End Deaths.

## Comparison of Currently Manufactured Oral Cholera Vaccines

Vaccine	Dukarol	ORC-Vax and mORC-Vax	Shanchol	Euvichol	Euvichol-Plus
<b>Manufacturer</b>	Valneva (Lyon, France)	Vabiotech (Vietnam)	Shantha Biotechnics (India) / Sanofi Pasteur	EuBiologics Co., Ltd (Korea)	EuBiologics Co., Ltd (Korea)
<b>Description</b>	Monovalent inactivated vaccine	Bivalent (serotypes O1 & O139) inactivated vaccine	Bivalent (serotypes O1 & O139) inactivated vaccine	Bivalent (serotypes O1 & O139) inactivated vaccine	Bivalent (serotypes O1 & O139) inactivated vaccine
<b>Components</b>	Killed whole-cells of VV. cholerae O1 (Classical and El Tor biotypes) and recombinant B-subunit of cholera toxin	Killed whole cells of V. cholerae O1 (Classical and El Tor biotypes) and V. cholerae O139	Killed whole cells of V. cholerae O1 (Classical and El Tor biotypes) and V. cholerae O139	Killed whole cells of V. cholerae O1 (Classical and El Tor biotypes) and V. cholerae O139	Killed whole cells of V. cholerae O1 (Classical and El Tor biotypes) and V. cholerae O139
<b>Recommended Age</b>	2 years and older	1 year and older	1 year and older	1 year and older	1 year and older
<b>Delivery</b>	Oral	Oral	Oral	Oral	Oral
<b>Doses</b>	2 given ≥1 week apart	2 given ≥2 weeks apart	2 given ≥2 weeks apart	2 given ≥2 weeks apart	2 given ≥2 weeks apart
<b>Buffer Solution</b>	Buffer dissolved in 75 ml (2-6 years old) or 150 ml (>6 years old) water	Not required	Not required	Not required	Not required
<b>Booster Dose</b>	Every 2 years (every 6 months for children 2-5 years)	Every 3 years	Every 3 years (more research needed)	Every 3 years (more research needed)	
<b>Licensure</b>	International (1991)	Vietnam (1997/2009)	India (2009)	Korea (2015)	Korea (2017)
<b>WHO- Prequalification</b>	Yes (2001)	No	Yes (2001)	Yes (2015)	Yes (2015)
<b>Public Sector Price (Per Dose, USD)</b>	\$5	\$1.25	\$1.85	\$1.85	\$1.30
<b>Storage Temperature</b>	2 to 8 degree Celsius	2 to 8 degree Celsius	2 to 8 degree Celsius	2 to 8 degree Celsius	2 to 8 degree Celsius
<b>Packaging</b>	Single dose 3 ml/vial, 2 doses per package	Single dose 1.5 ml/vial and multiple dose vial (5 doses per vial)	Single dose 1.5 ml/vial	Single dose 1.5 ml/vial	Single dose 1.5 ml/vial; Plastic Vial OCV