

Table of vaccines prequalified for use in controlled temperature chain (CTC)

Disease	Vaccine	Threshold temperature criteria	Maximum permitted CTC duration	Package insert	Online resources
Cholera	¹ Shanchol™	40°C	14 days	https://extranet.who.int/prequal/sites/default/files/vwa_vaccine/pq_250_Shanchol_1dose_Santha_PI-2019.pdf	<i>Implementation guidance under development.</i>
HPV	Gardasil® Gardasil 9	40°C 40°C 40°C	4 days 3 days 4 days	FVP-P-306 HPV9 1dose Merck PI-2025.pdf	https://www.who.int/publications/i/item/9789240074682
Meningitis A	MenAfriVac®	40°C	4 days	https://extranet.who.int/prequal/sites/default/files/vwa_vaccine/pq_197_MenAconj_SII_PI.pdf	https://pubmed.ncbi.nlm.nih.gov/28761614/ https://www.sciencedirect.com/science/article/pii/S0264410X14000723 https://iris.who.int/handle/10665/271459 A field based evaluation of adverse events following MenAfriVac® vaccine delivered in a controlled temperature chain (CTC) approach in Benin – PubMed https://iris.who.int/bitstream/handle/10665/86019/WHO_IVB_13.05_eng.pdf?sequence=1 https://www.who.int/publications/i/item/WHO-IVB-13.04 https://www.who.int/publications/i/item/WHO-IVB-13.06
Meningitis A, C, Y, W, X	MenFive™	40°C	15 days	https://extranet.who.int/prequal/sites/default/files/vwa_vaccine/FVP-P-427_451_MenFive_SIIPL_PI-UNICEF_2025_0.pdf	<i>Implementation guidance under development.</i>
Typhoid	Typbar	40°C 55°C	7 days 3 days	https://extranet.who.int/prequal/sites/default/files/vwa_vaccine/pq_319_320_TypbarTCV_BBIL_PI-2022.pdf	

¹The production and supply of this product has been discontinued as of end of 2023. However, EuBiologics' Euvichol-Plus®, is expected to meet prequalification requirements for CTC by 2025. In the interim, SAGE has provided guidance enabling off-label use of Euvichol-Plus under CTC conditions with a 10 day permitted CTC duration at ambient temperatures up to 40°C.