

TCV vaccines indicator

Logistics (feasibility)

Cold chain volume required per vaccine dose (in cm³)

Cold-chain volume varies by product and presentation. In secondary packaging, volumes are 14.45 cm³/dose for the Typbar-TCV single-dose vial and 2.9 cm³/dose for its 5-dose vial; 14.7 cm³/dose for the TYPHIBEV single-dose vial and 2.9 cm³/dose for its 5-dose vial; 2.62 cm³/dose for ZyVac TCV; and 3.05 cm³/dose for SKYTyphoid Multi Inj.¹

For specific product characteristics, see the comparison table.²

Sources

1.

World Health Organization (2026). WHO Prequalification of Medical Products: Typbar-TCV (single-dose and 5-dose presentations), TYPHIBEV® (single-dose and 5-dose presentations), ZyVac® TCV and SKYTyphoid Multi Inj. (<https://extranet.who.int/prequal/vaccines/p/typbar-tcv>; <https://extranet.who.int/prequal/vaccines/p/typbar-tcv-0>; <https://extranet.who.int/prequal/vaccines/p/typhibevr>; <https://extranet.who.int/prequal/vaccines/p/typhibevr-0>; <https://extranet.who.int/prequal/vaccines/p/zyvacr-tcv>; <https://extranet.who.int/prequal/vaccines/p/skytyphoid-multi-inj>, accessed 26 July 2026).

2.

For specific product characteristics, see [the comparison table](#).