



Representative transmission electron micrograph (TEM) of bacteriophage Mahtaab.

Phage particles were negatively stained with uranyl acetate and imaged by TEM at an accelerating voltage of 120 kV. Mahtaab exhibits an icosahedral capsid and a long, flexible tail, consistent with Siphoviridae morphology. Quantitative analysis of TEM micrographs indicates a capsid width of 63 nm, tail length of 221 nm, and tail width of 11.8 nm. Measurements were performed using Fiji (ImageJ).