



**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).