

Supplementary Information

Fabrication of Fresnel plates on optical fibres by FIB milling for optical trapping, manipulation and detection of single cells

Rita S. Rodrigues Ribeiro,^{1,2*} Pabitra Dahal,² Ariel Guerreiro,¹ Pedro A. S. Jorge¹ and Jaime Viegas²

¹INESC TEC, Rua do Campo Alegre, 687, Porto, Portugal and Departamento de Física e Astronomia, Faculdade de Ciências, Universidade do Porto, Rua Campo Alegre, 687, Porto, Portugal

² Masdar Institute of Science and Technology, PO BOX 54224, Abu Dhabi, United Arab Emirates

[*arsr@inescporto.pt](mailto:arsr@inescporto.pt)

Video 1 Legend - Optical trapping of an 8 μm PMMA particle in the xy plane.

Video 2 Legend - Rearrangement/sorting of two yeast cells, A and B, to a specific location.