**Finite Element Analysis of a Three-Stage Micro-sieves based Microfiltration Technique**

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**Fig. S1.** Pictorial representation of process flow of micromixer and different stages of filtration using microsieves.



**Fig. S2.** Triangular meshing



**Fig. S3.** Geometry of 50µm microsieves



**Fig. S4.** Two- Stage microsieves



**Fig. S5.** Particle tracing geometry