

Supporting Information

A robust and refillable magnetic sponge capsule for remotely triggered drug release

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Movie S1. Reversible deformation of the sponge with magnetic stimuli.

Movie S2. MB release from a fully open (non-sealed) sponge capsule.

Movie S3. MB release from the sponge capsule with sealed top and bottom surfaces.

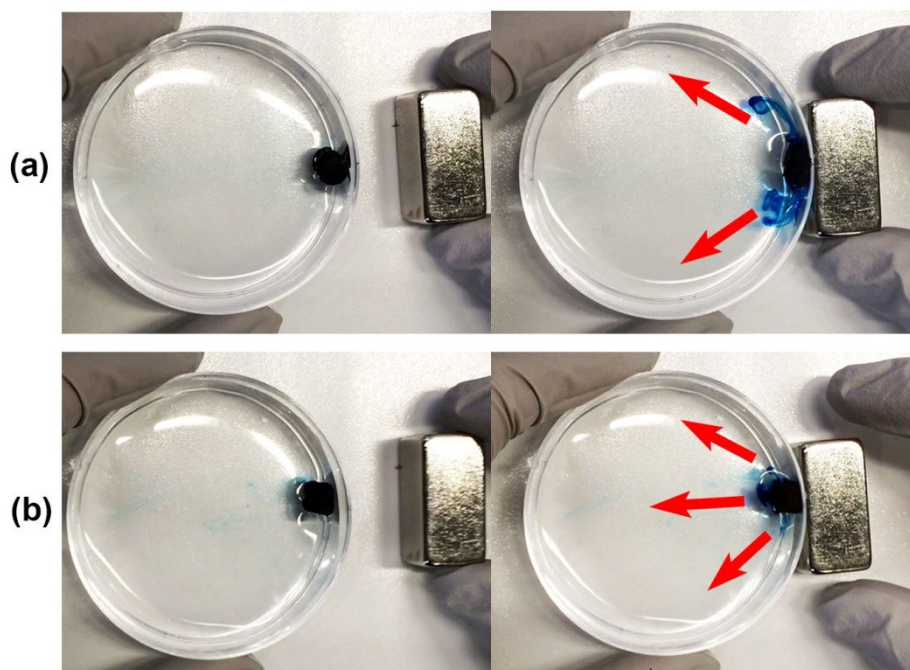


Fig. S1 Methylene blue (MB) release from PDMS sponge capsule. (a) Release image captured from a top and bottom sealed capsule; (b) Release image captured from a capsule without sealing. The arrows indicate the release directions.

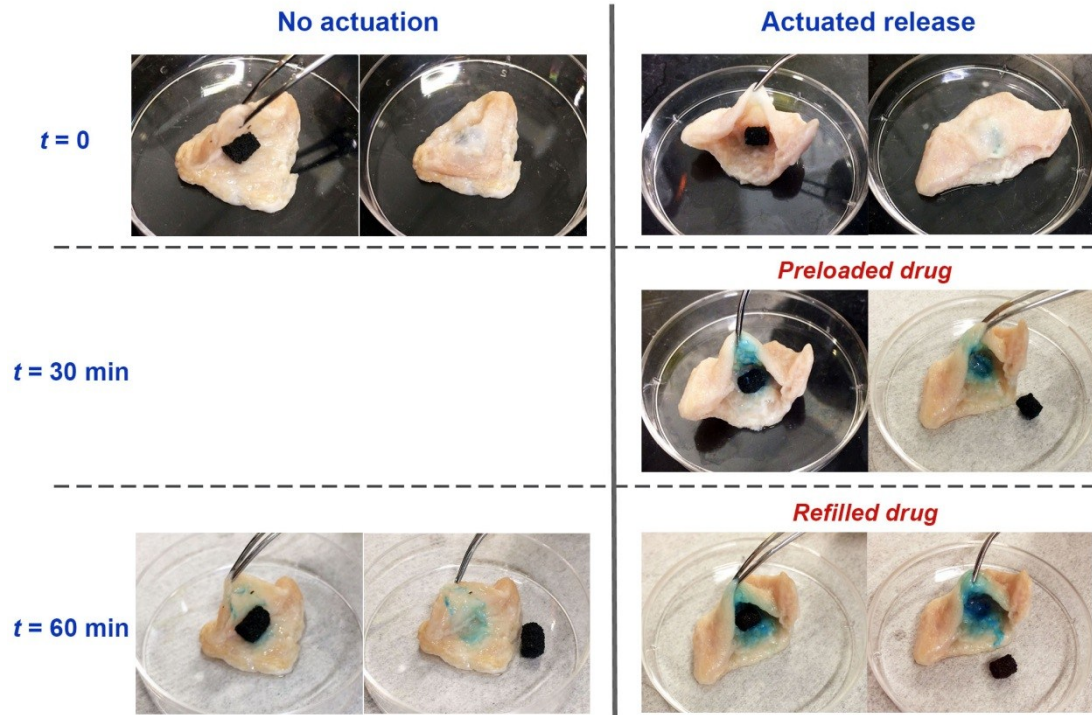


Fig. S2 *Ex vivo* evaluation of the performance of the sponge capsules. The left column shows the images taken in a control experiment where no magnetic actuation was applied to the implanted capsule. The right column shows the actuated MB release before and after the refilling procedure.