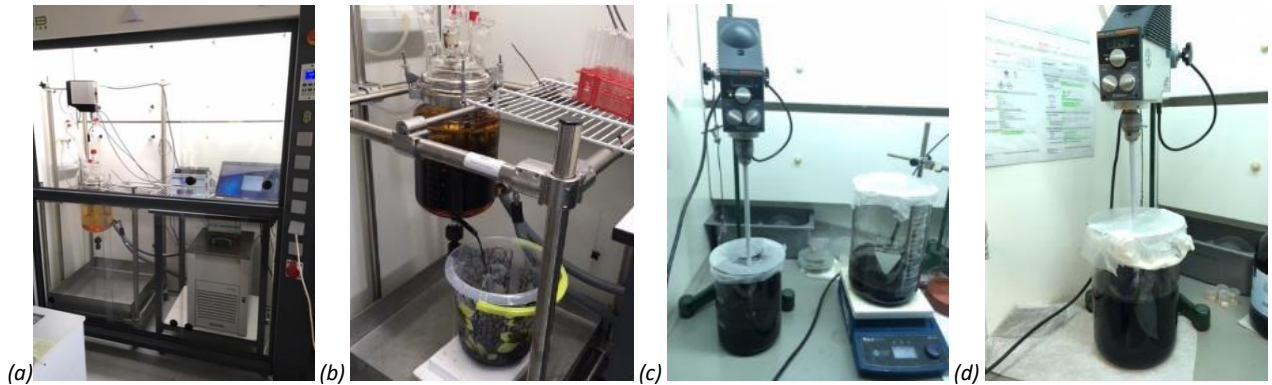


SCALE-UP” SYNTHESIS OF STABILIZED MAGNETIC (MNP) AND FUNCTIONALIZED MAGNETIC NANOPARTICLES (F-MNP) IN 11-X MAGNITUDE



Figures 1: (a) Büchiglasuster reactor for “Scale-up” MNP synthesis in 11-x magnitude (V = 4L); (b) Reactor vessel (V = 5L) with SUP MNP; (c) Stabilization of SUP MNP at RT and elevated temperature (V = 1L); (d) Functionalization of stabilized SUP MND in scale-up volume (V = 3L) with precursor TEOS:APTMS 1:2



Figures 2: (a) Scale-up prepared, stabilized and functionalized $\gamma\text{-Fe}_2\text{O}_3$ magnetic nanoparticles (SUP F-MNP T: A_sAM): (a) dried, (b) crushed and finely powdered; (c) TEM image of nanoparticles