

Evaluation of PVA-Xanthan Gum Hydrogels Loaded with Neomycin Sulfate as Systems for drug delivery

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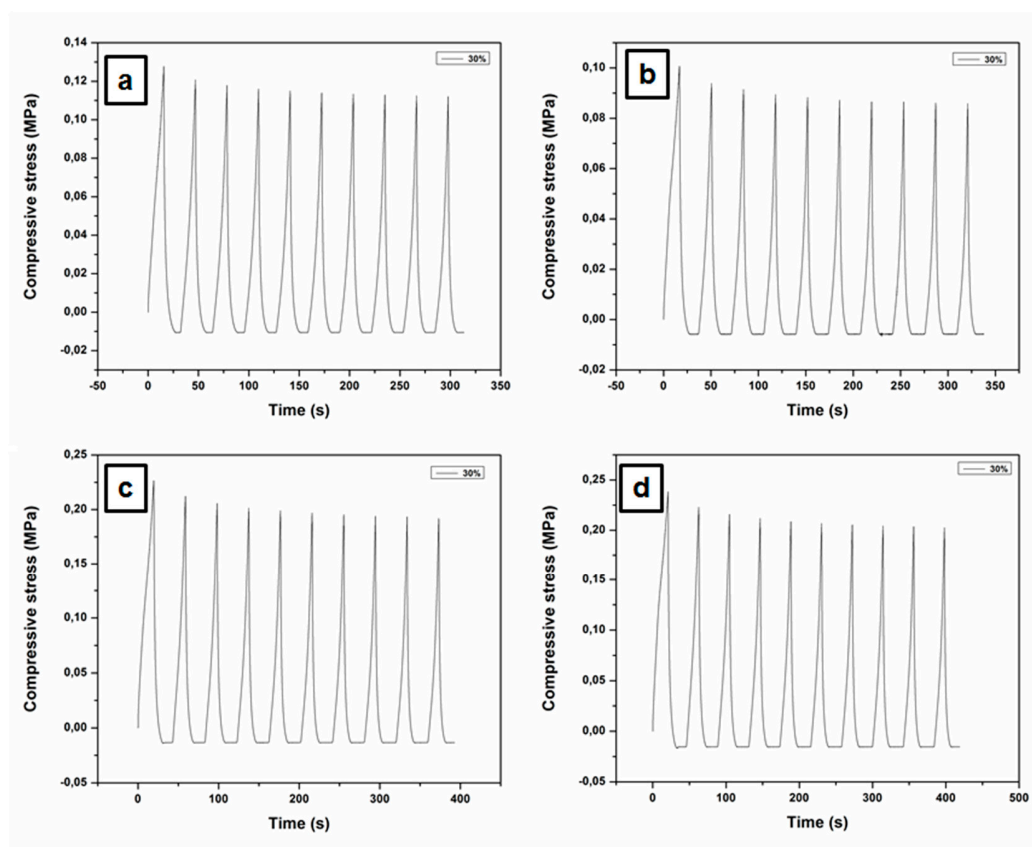
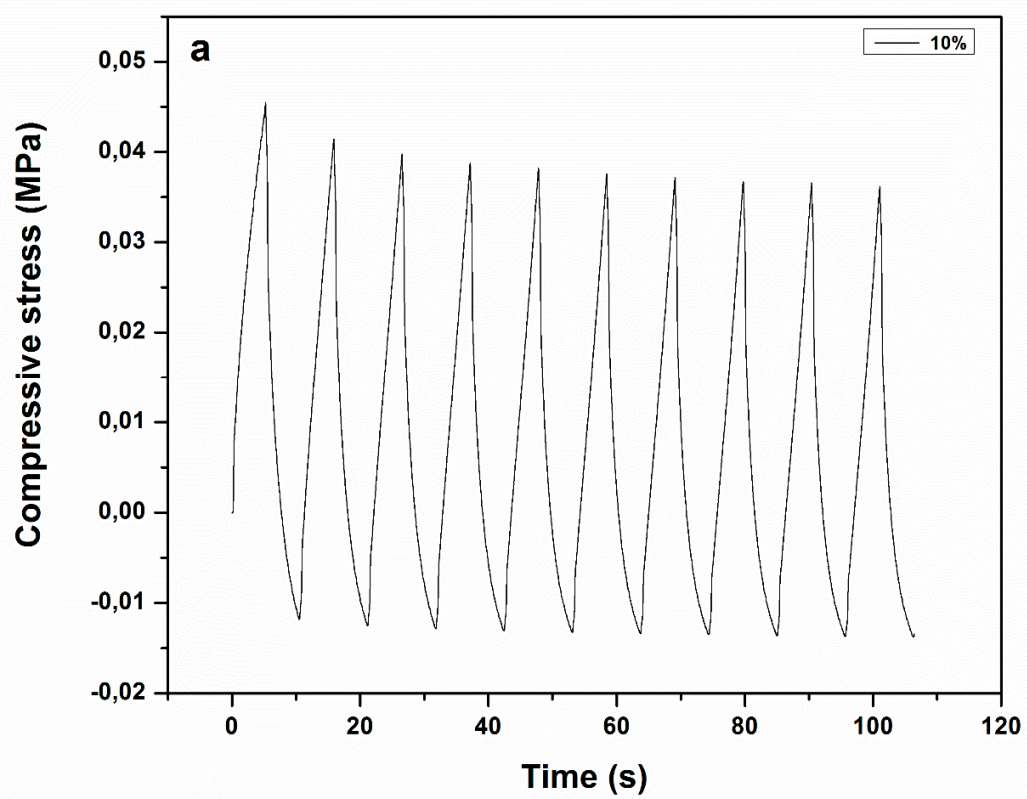
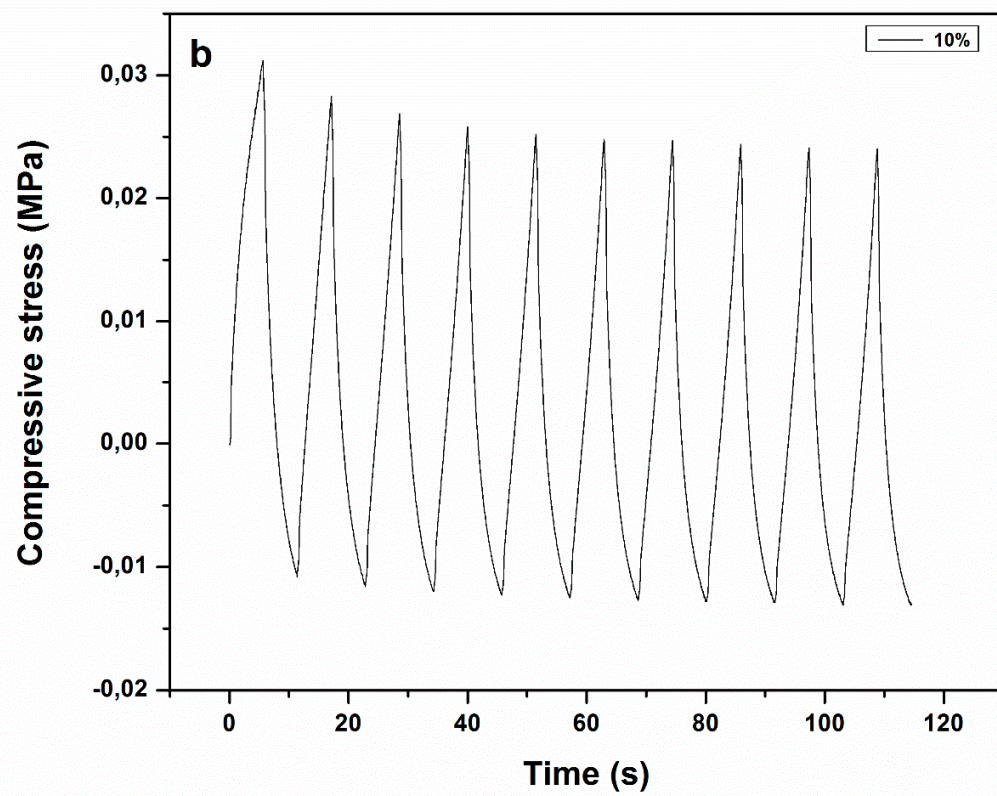
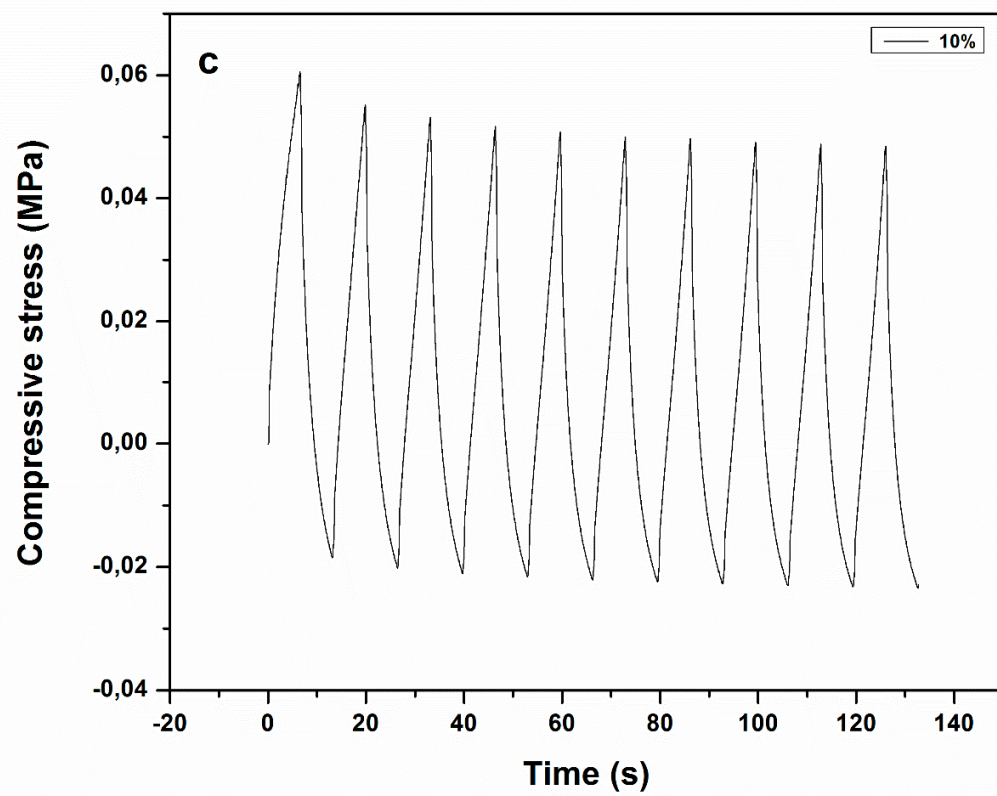


Figure S1. Compression tests on the studied PVA/XG-80/20 hydrogels in the series under 30% compression at room temperature; PVA/XG-80/20 (a), PVA/XG-80/20-1 (b), PVA/XG-80/20-2 (c), PVA/XG-80/20-3 (d).







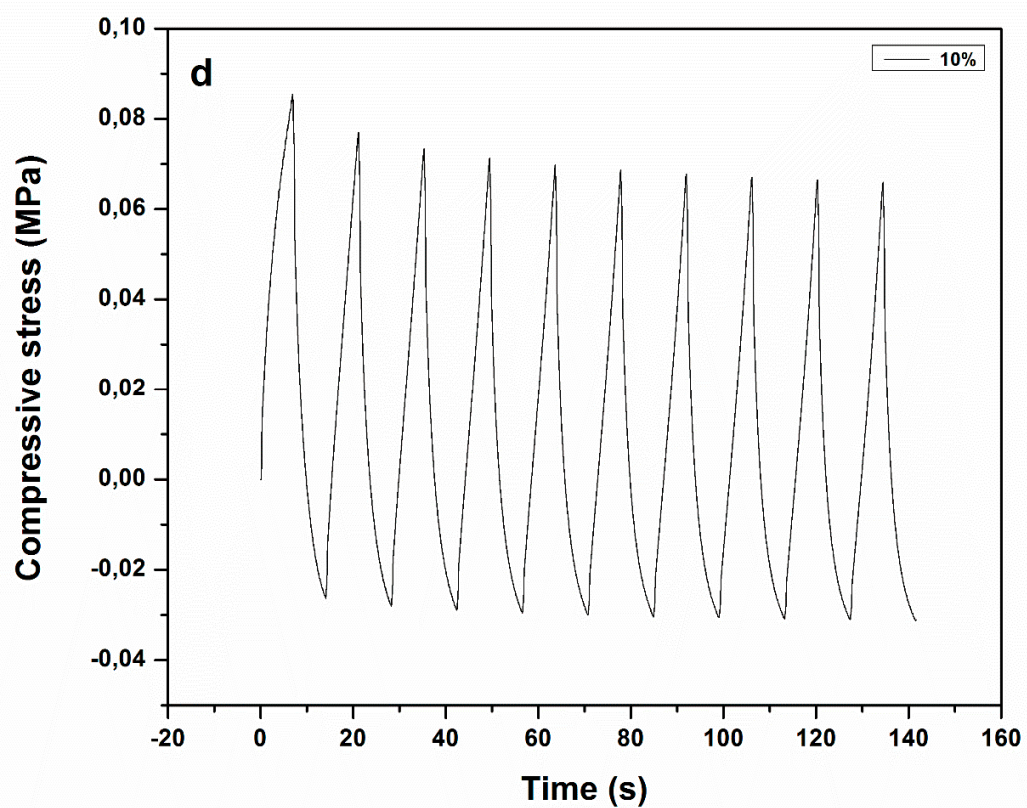


Figure S2. Compression tests on the studied PVA/XG-80/20 hydrogels in the series under 10% compression at room temperature PVA/XG-80/20 (a), PVA/XG-80/20-1 (b), PVA/XG-80/20-2 (c), PVA/XG-80/20-3 (d).

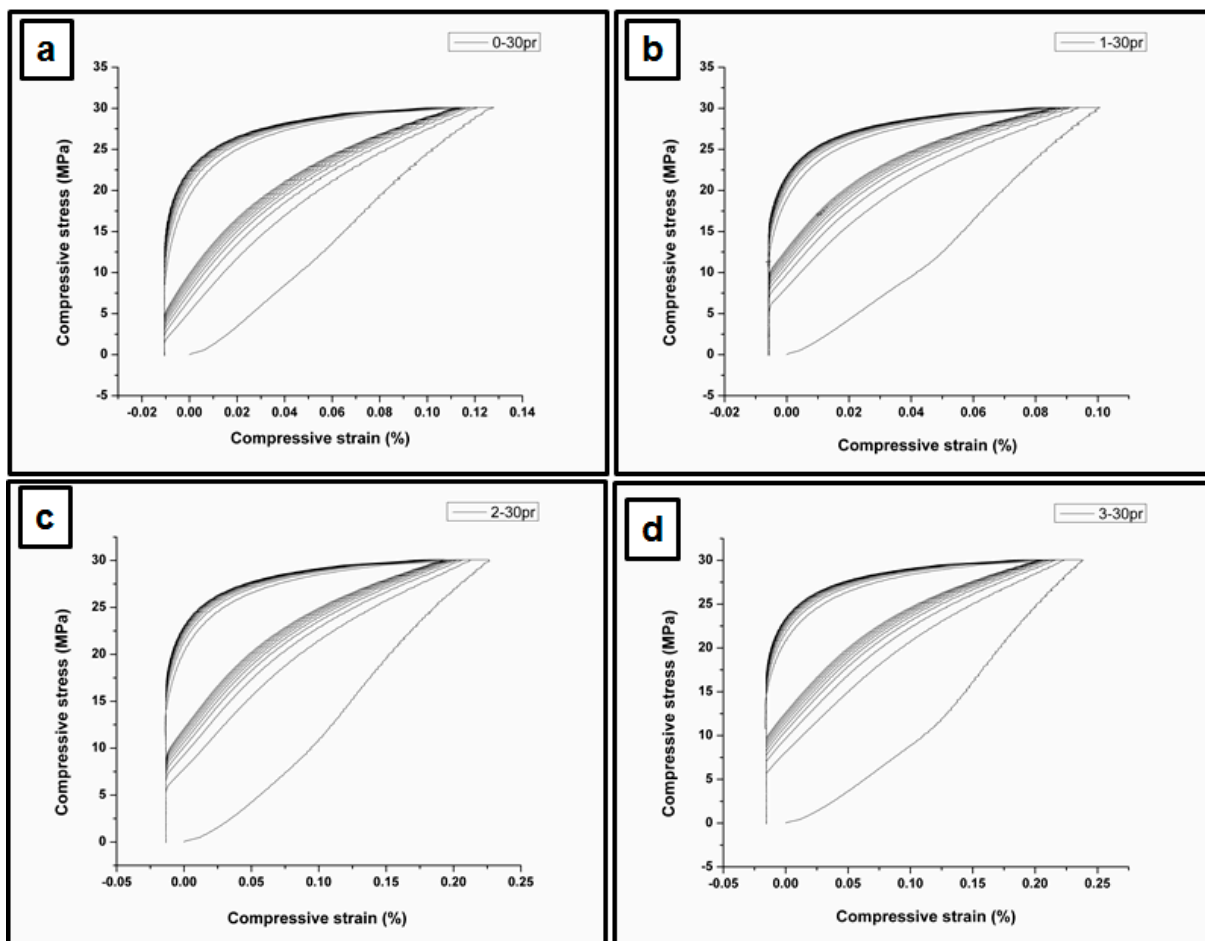
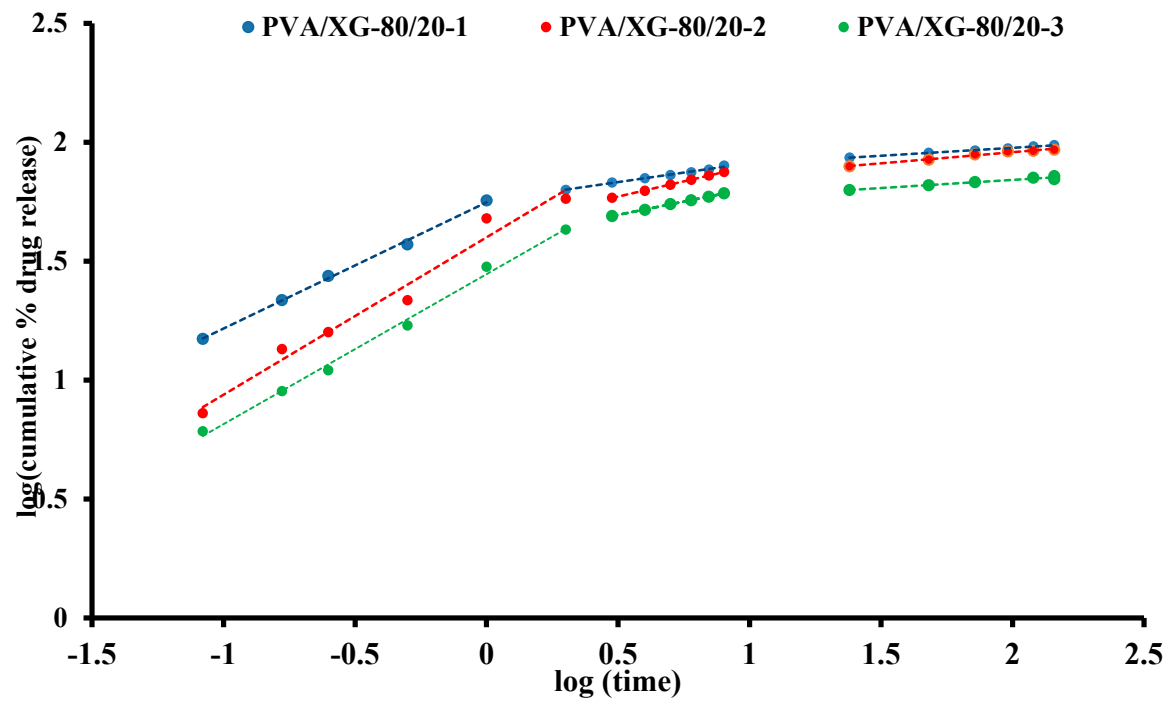
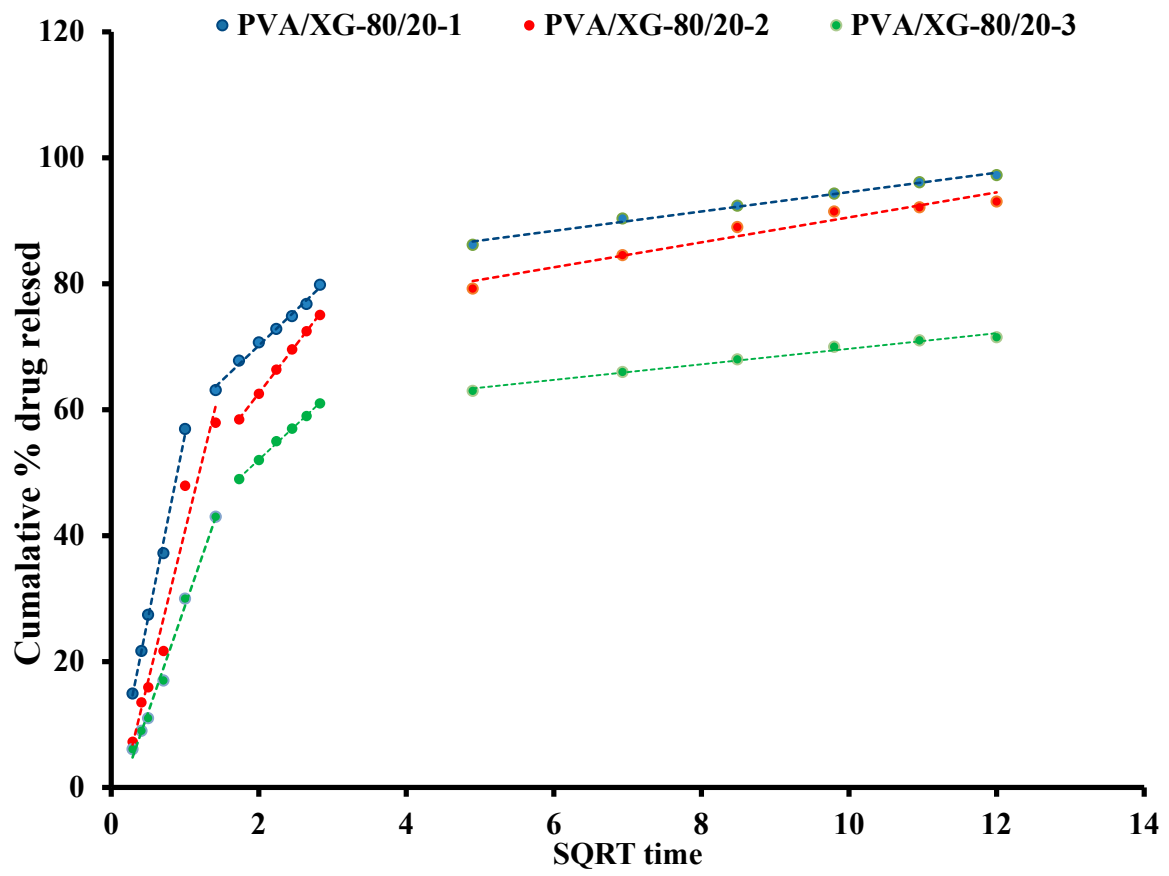


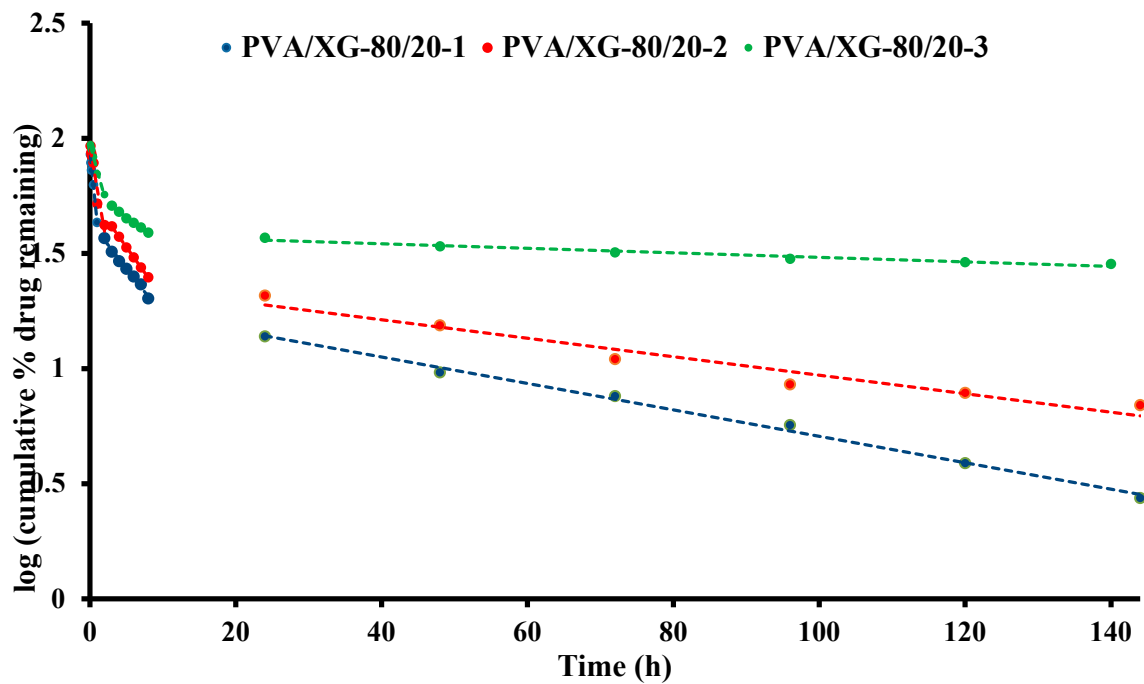
Figure S3. Compressive stress–strain curves of the studied PVA/XG-80/20 hydrogels in the series under 30% compression at room temperature; PVA/XG-80/20 (a), PVA/XG-80/20-1 (b), PVA/XG-80/20-2 (c), PVA/XG-80/20-3 (d).



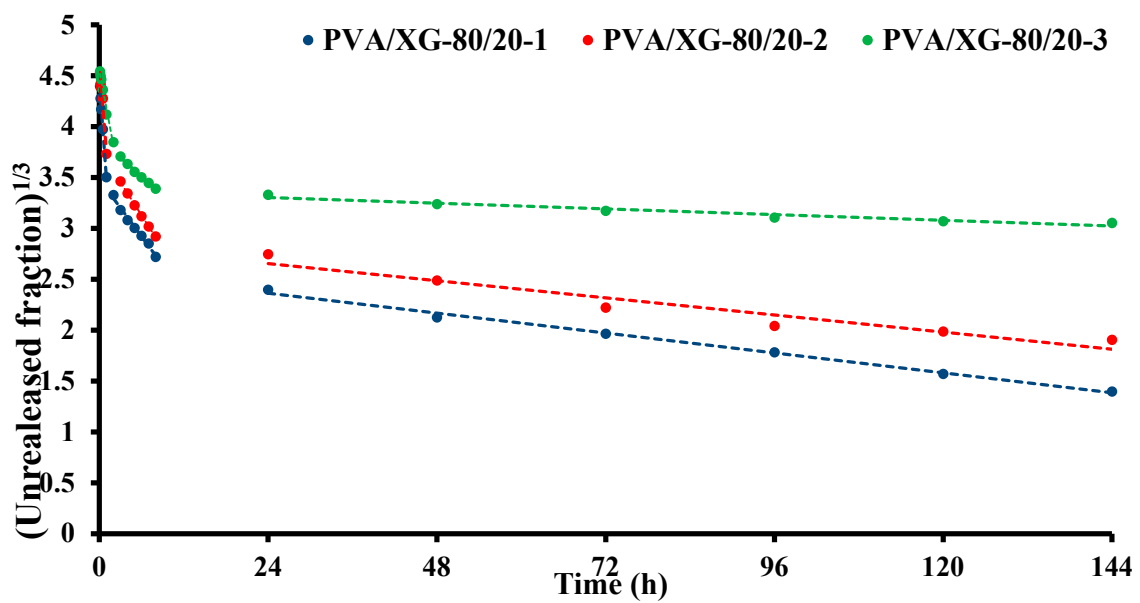
a) Korsmayer-Peppas



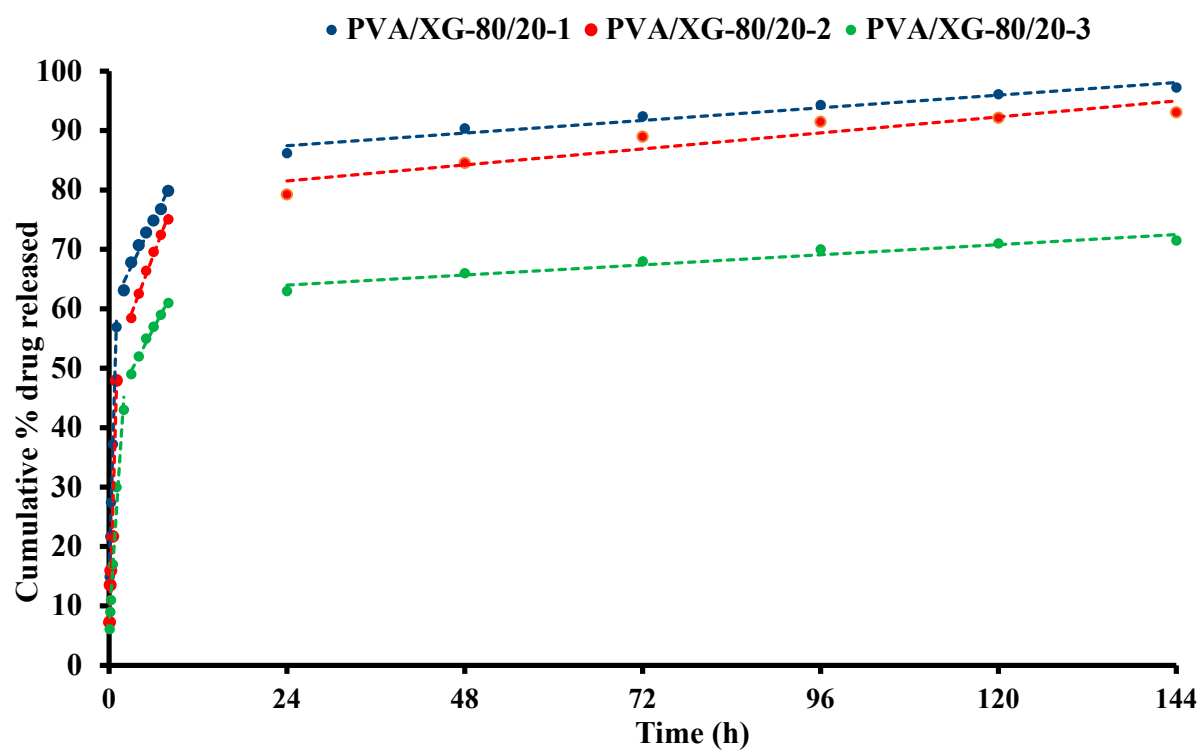
b) Higuchi



c) First Order



d) Hickson-Crowel



e) Zero Order

Figure S4. Different mathematical models fitted on the *in vitro* release profile on each of the three stages

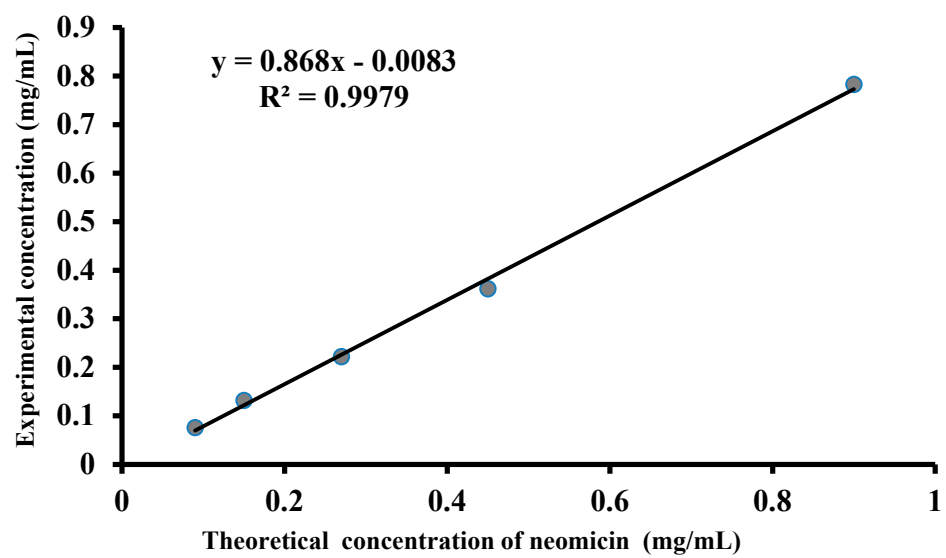


Figure S5. Calibration curve as obtained from NMR data