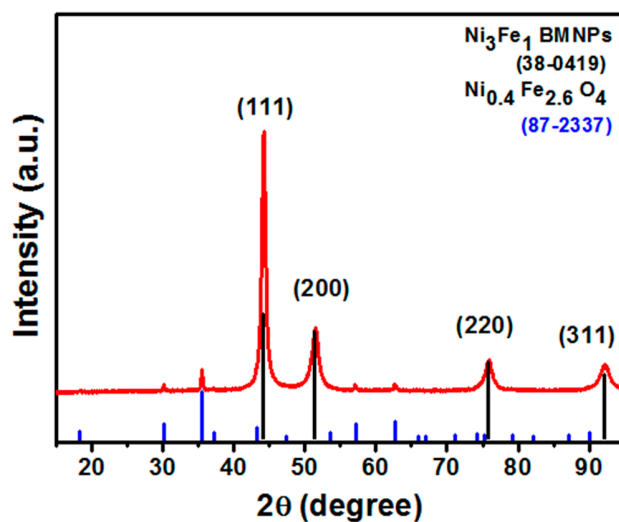


## Supporting information

### Hydrogenation of xylose to xylitol in the presence of bimetallic nanoparticles $\text{Ni}_3\text{Fe}$ catalyst in the presence of choline chloride

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**Figure S1** X-ray diffraction (XRD) pattern of as-synthesized  $\text{Ni}_3\text{Fe}_1$  BMNPs.