BEILSTEIN JOURNAL OF NANOTECHNOLOGY

Supporting Information

for

Piezoelectricity of hexagonal boron nitrides improves bone tissue generation as tested on osteoblasts

Sevin Adiguzel, Nilay Cicek, Zehra Cobandede, Feray B. Misirlioglu, Hulya Yilmaz and Mustafa Culha

Beilstein J. Nanotechnol. **2025,** *16,* 1068–1081. doi:10.3762/bjnano.16.78

Additional figures

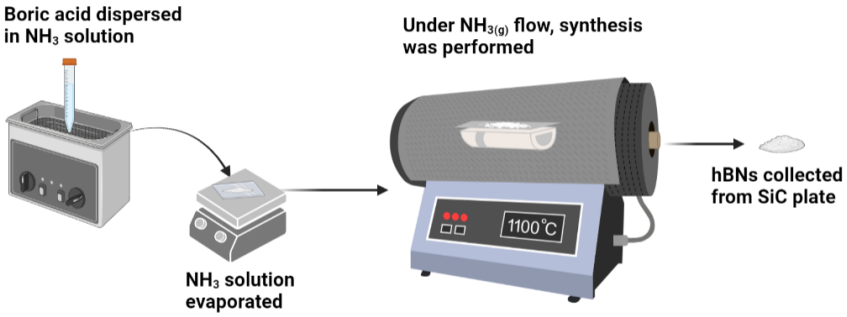

Figure S1: Schematic representation of the synthesis process of hBNs using the CVD method. Created in BioRender. Adıgüzel, Ş. (2025) https://BioRender.com/1xs905s. This content is not subject to CC BY 4.0.

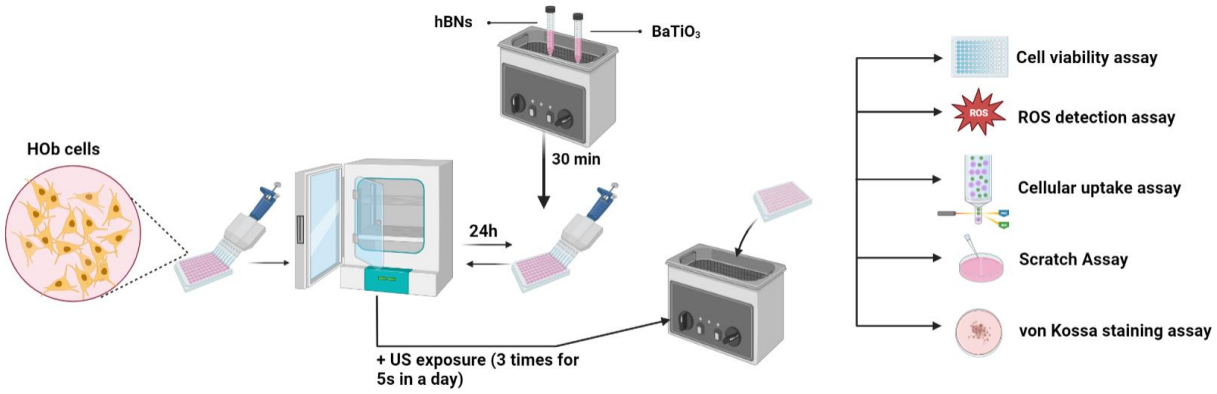

Figure S2: Schematic representation of the in vitro studies Created in BioRender. Adıgüzel, Ş. (2025) https://BioRender.com/4y6g1p7. This content is not subject to CC BY 4.0.

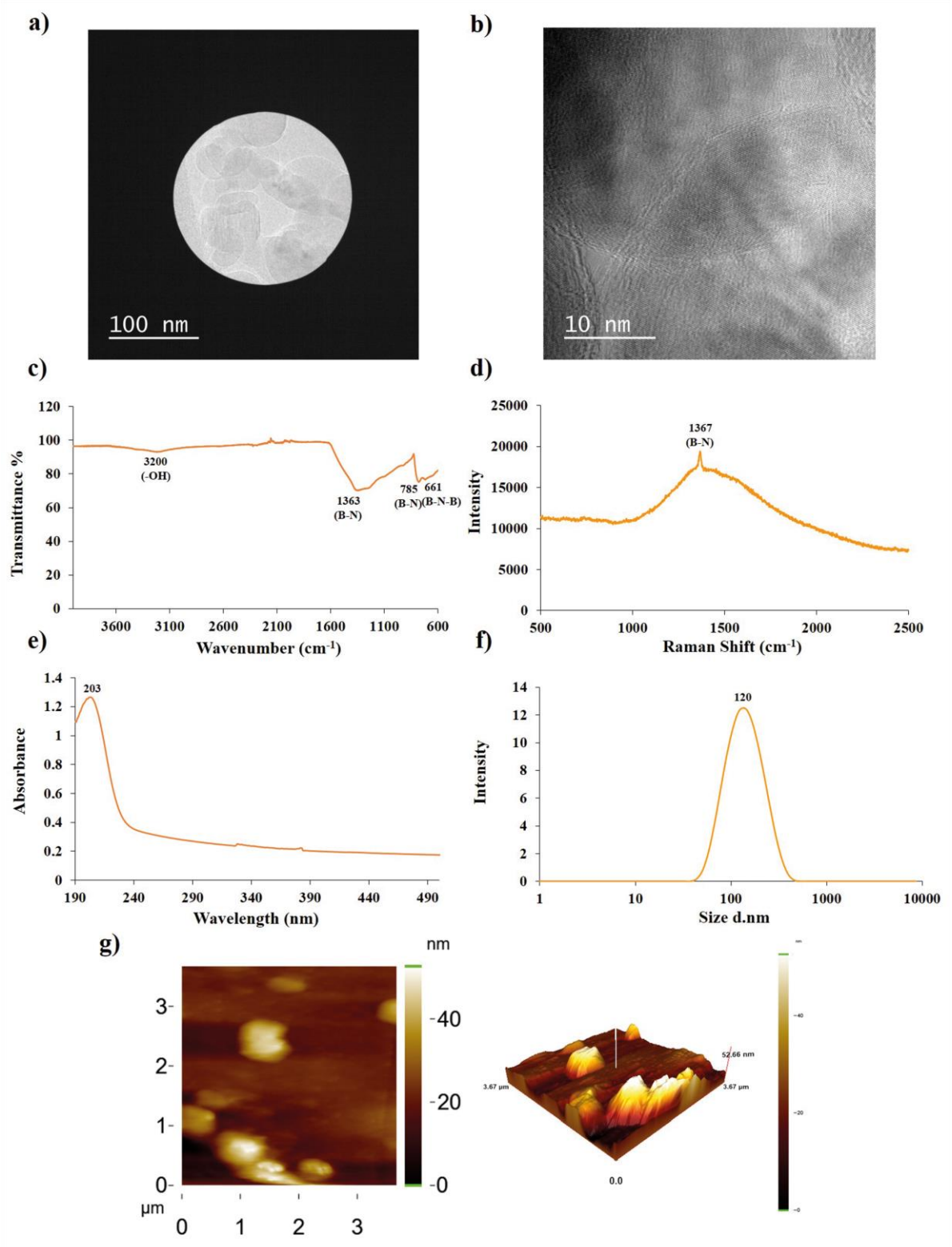

Figure S3: (a) and (b) TEM images with increasing magnifications, (c) FTIR, (d) Raman, (e) UV–vis, (f) DLS spectra, and (g) topography of hBNs.

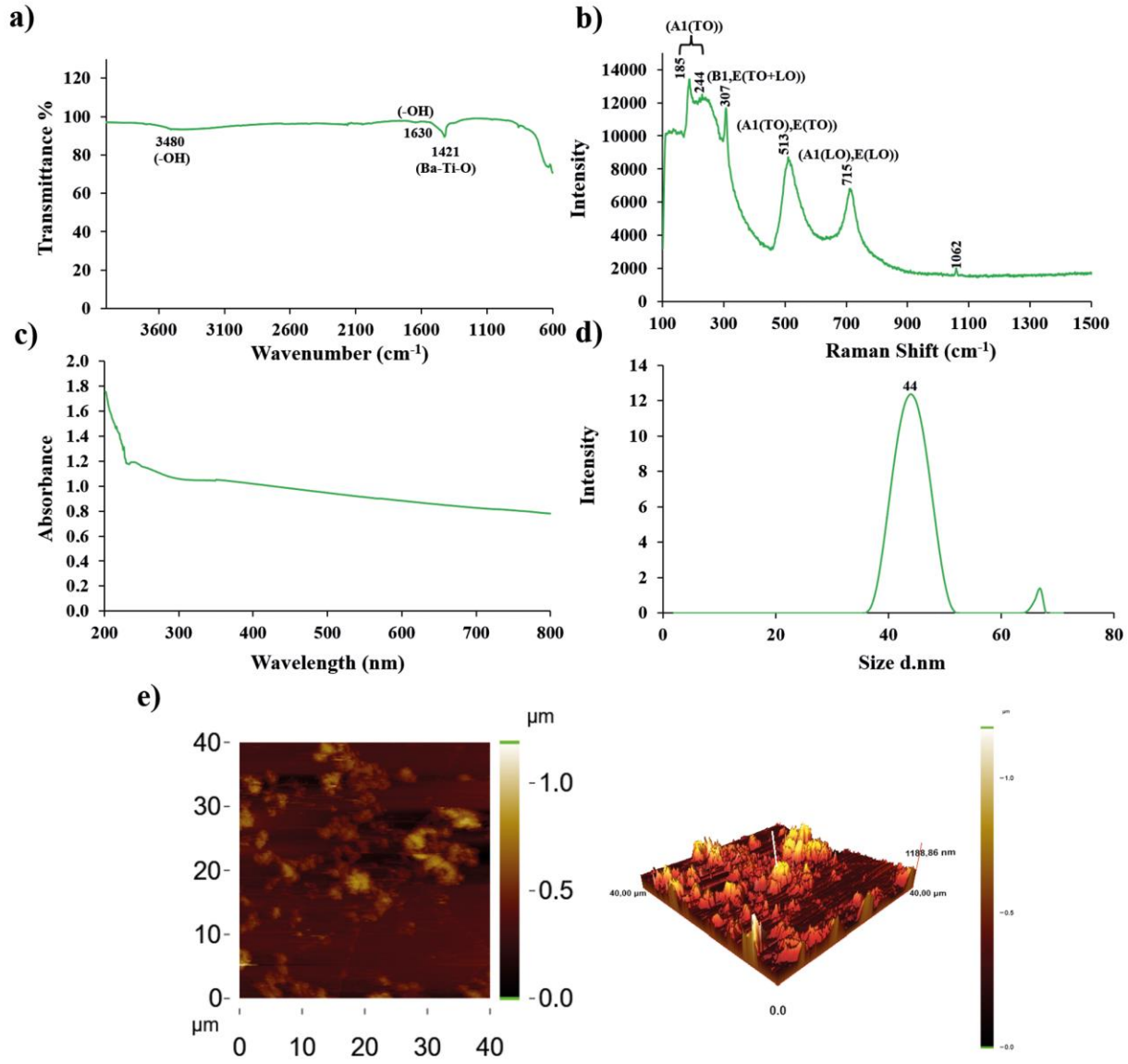

Figure S4: (a) FTIR, (b) Raman, (c) UV–vis, (d) DLS spectra, and (e) topography of $BaTiO_3$.