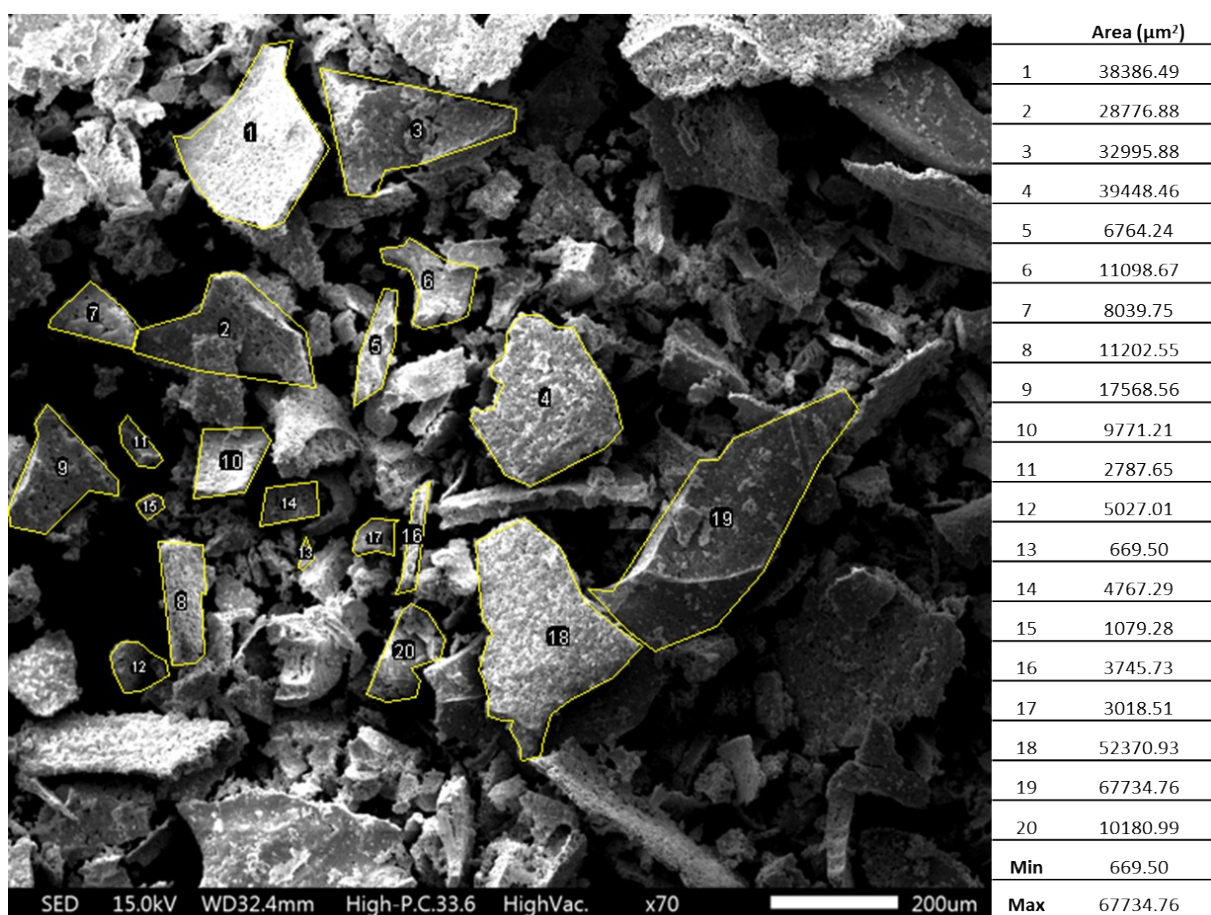


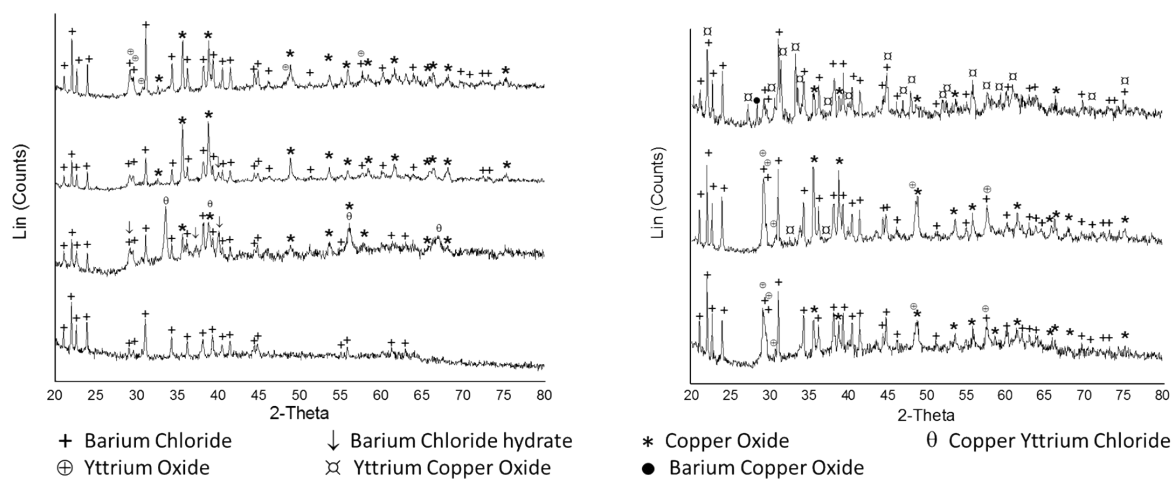
## Supporting Information

63257	Ba(CO <sub>3</sub> )
15196	Ba(CO <sub>3</sub> )
261703	Ba(C <sub>2</sub> O <sub>4</sub> )
65801	BaCuO <sub>2</sub>
262674	BaCl <sub>2</sub>
35495	Ba(NO <sub>3</sub> ) <sub>2</sub>
54129	(CuO <sub>2</sub> ) <sub>4</sub>
54126	CuO <sub>2</sub>
69757	CuO
188351	Cu <sub>6</sub> O <sub>8</sub> YCl
27772	Y <sub>2</sub> O <sub>3</sub>
202877	Y <sub>2</sub> Cu <sub>2</sub> O <sub>5</sub>
39456	Y <sub>0.98</sub> Ba <sub>1.98</sub> Cu <sub>2.91</sub> O <sub>6.47</sub>
67860	YBa <sub>2</sub> Cu <sub>2.78</sub> O <sub>7</sub>
62463	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.8</sub>
68449	YBa <sub>2</sub> Cu <sub>2.86</sub> O <sub>6.6</sub>
39359	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.9</sub>
67860	YBa <sub>2</sub> Cu <sub>2.78</sub> O <sub>7</sub>
62915	YBa <sub>2</sub> Cu <sub>2.87</sub> O <sub>6.76</sub>
32707	Y <sub>2</sub> BaCuO <sub>5</sub>
65550	Y <sub>0.5</sub> Ba <sub>3</sub> Cu <sub>1.5</sub> O <sub>5.5</sub>
65549	Y <sub>0.25</sub> BaCu <sub>0.75</sub> O <sub>2.25</sub>

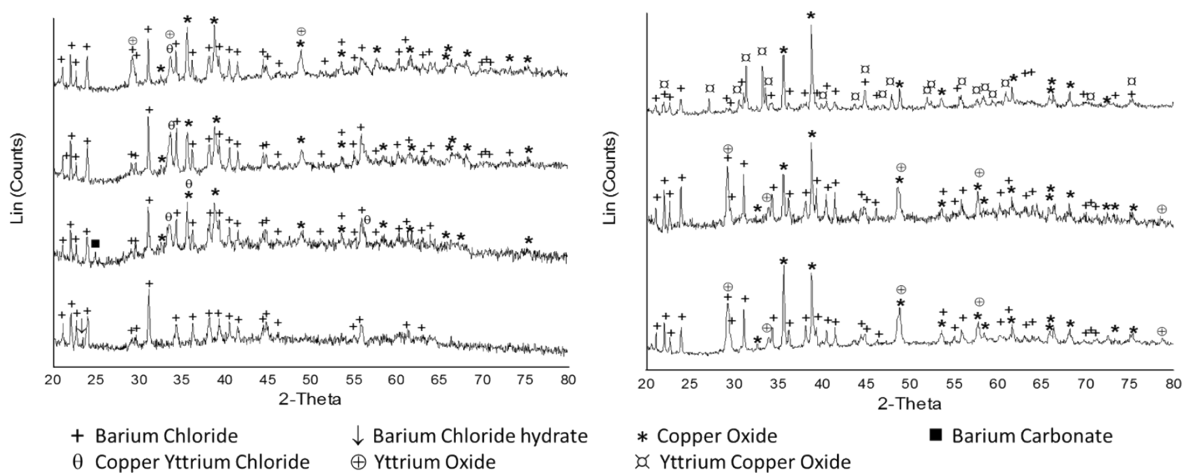
**Table S1.** ICSD numbers (Left) with the corresponding crystal phases (Right)



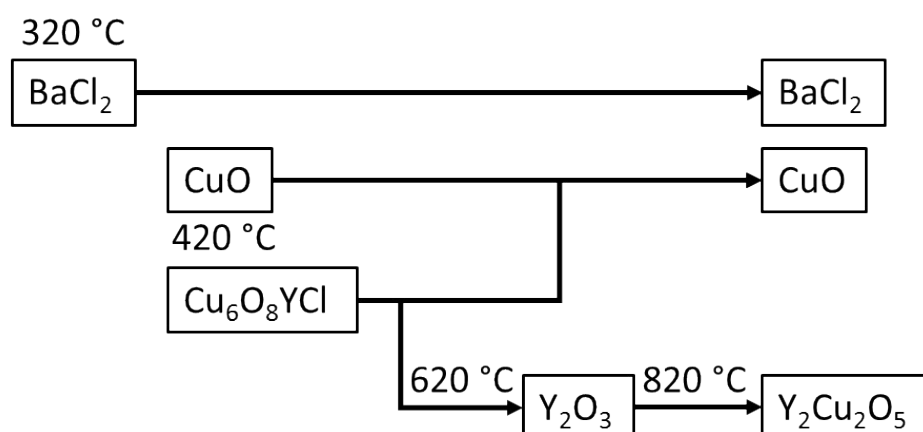
**Figure S1.** Scanning Electron Microscopy image of the superconductive YBCO sample. Highlighted the crystals chosen to be measured (Left). Table of their relative surfaces areas (Right)



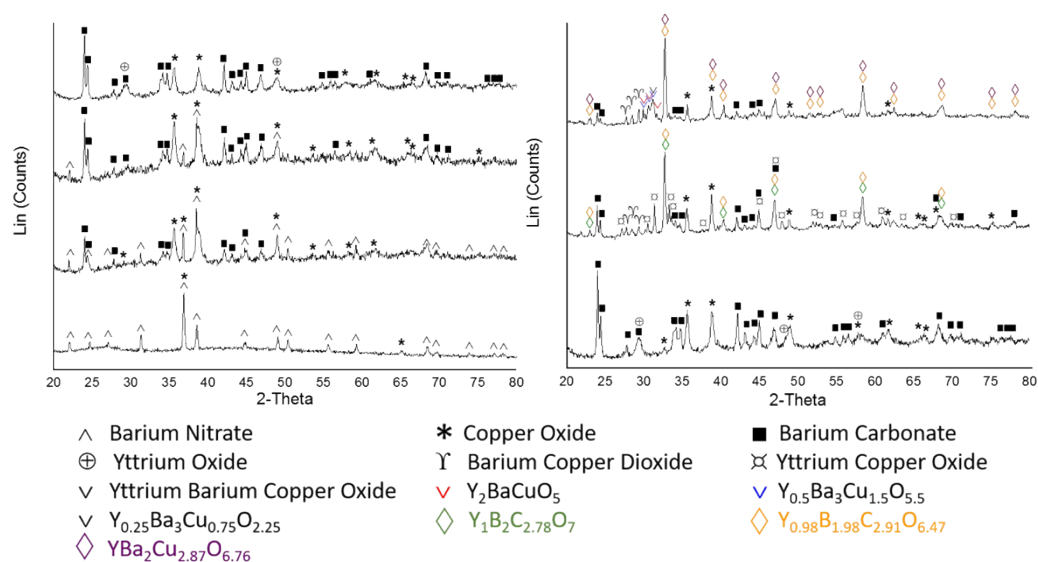
**Figure S2.** Temperature analysis via powder X-ray diffraction patterns of the synthesis of YBCO using ethylene glycol: choline chloride DES/dextran as chelating agent.



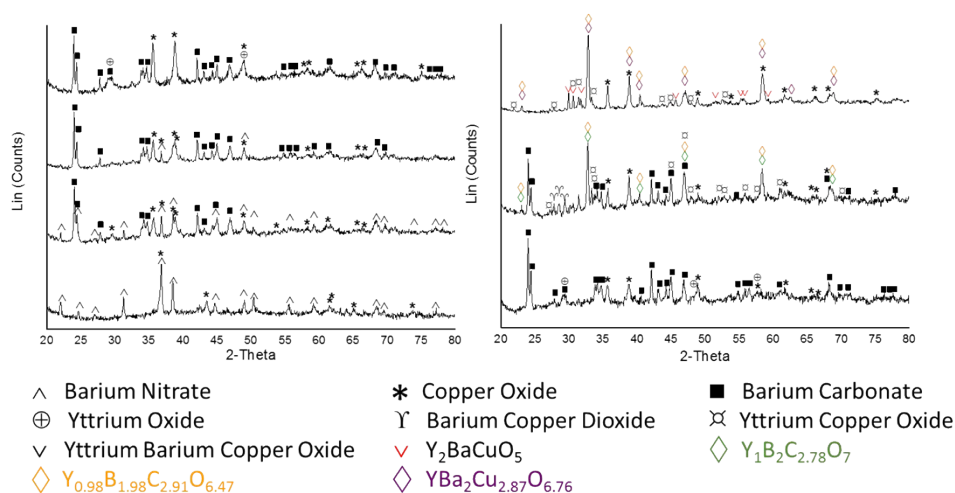
**Figure S3.** Temperature analysis via powder X-ray diffraction patterns of the synthesis of YBCO using imidazole: choline chloride DES/dextran as chelating agent.



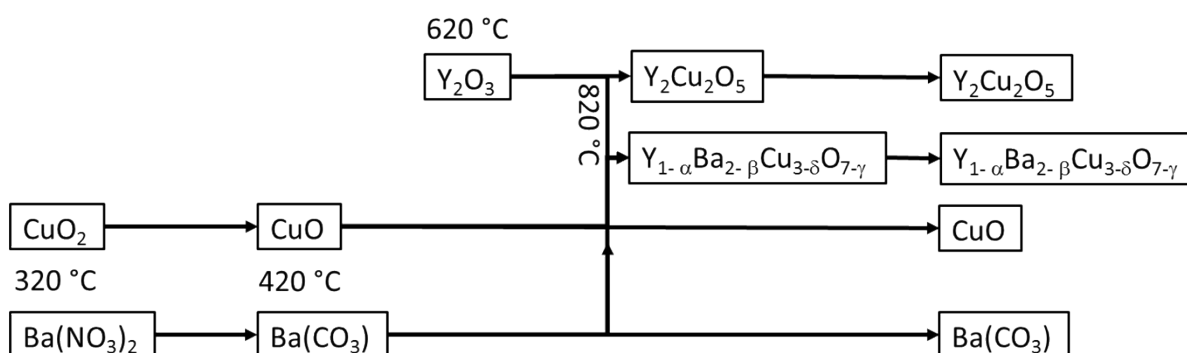
**Figure S4.** Diagram of crystal growth of the synthesis of YBCO using ethylene glycol: choline chloride DES/dextran and imidazole: choline chloride DES/dextran as chelating agents.



**Figure S5.** Temperature analysis via powder X-ray diffraction patterns of the synthesis of YBCO using imidazole/dextran as chelating agent.



**Figure S6.** Temperature analysis via powder X-ray diffraction patterns of the synthesis of YBCO using ethylene glycol/dextran as chelating agent.



**Figure S7.** Diagram of crystal growth of the synthesis of YBCO using ethylene glycol/dextran and imidazole/dextran as chelating agents.