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Supporting Information

High-Temperature, High-Pressure Hydrothermal Synthesis, Crystal Structure, Infrared and NMR Spectroscopy of a Barium Lead Borate with 2D Layer Structure: $[Ba_3Pb(H_2O)][B_{11}O_{19}(OH)_3]$

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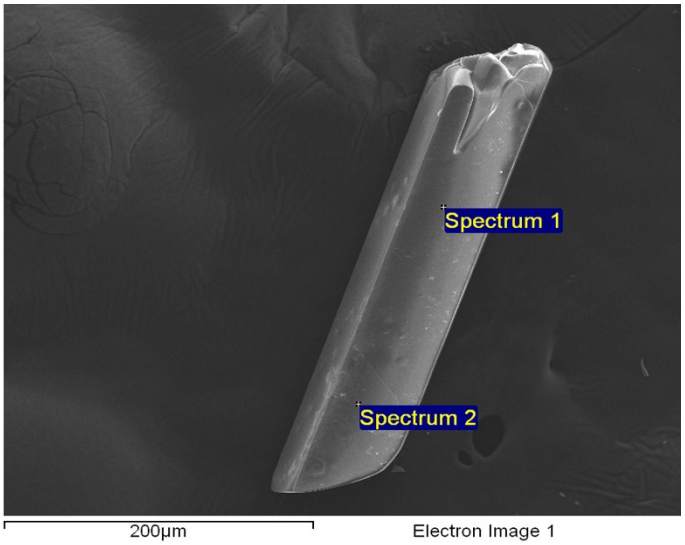

Processing option: Oxygen by stoichiometry (Normalised)
LB-01

Spectrum	In stats.	B	Ba	Pb	O
Spectrum1	Yes	30.36	9.24	2.80	57.59
Spectrum2	Yes	22.59	13.56	8.21	55.65
Mean		26.47	11.40	5.51	56.62
Std. deviation		5.50	3.05	3.82	1.37
Mas.		30.36	13.56	8.21	57.59
Min		22.59	9.24	2.80	55.65

All results in atomic %

Figure S1. Results of EDS analysis on a crystal of $[Ba_3Pb(H_2O)][B_{11}O_{19}(OH)_3]$.

	Value
GOF	2.05
Resp	3.29
Rwp	6.77
Rp	4.59
Rexp-dash	5.44
Rwp-dash	11.18
Rp-dash	8.52
Weighted Durbin Watson	0.78

	Use	Value	Code	Error
Use Phase	☑			
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Delete hkls on Refinement	☑			
LP Search	☐	0.4		
Spacegroup		P21/n		
a (Å)		6.6763254	Refine	0.0004093
b (Å)		30.4410438	Refine	0.0014908
c (Å)		8.7765892	Refine	0.0004553
beta		90.91868	Refine	0.00353863

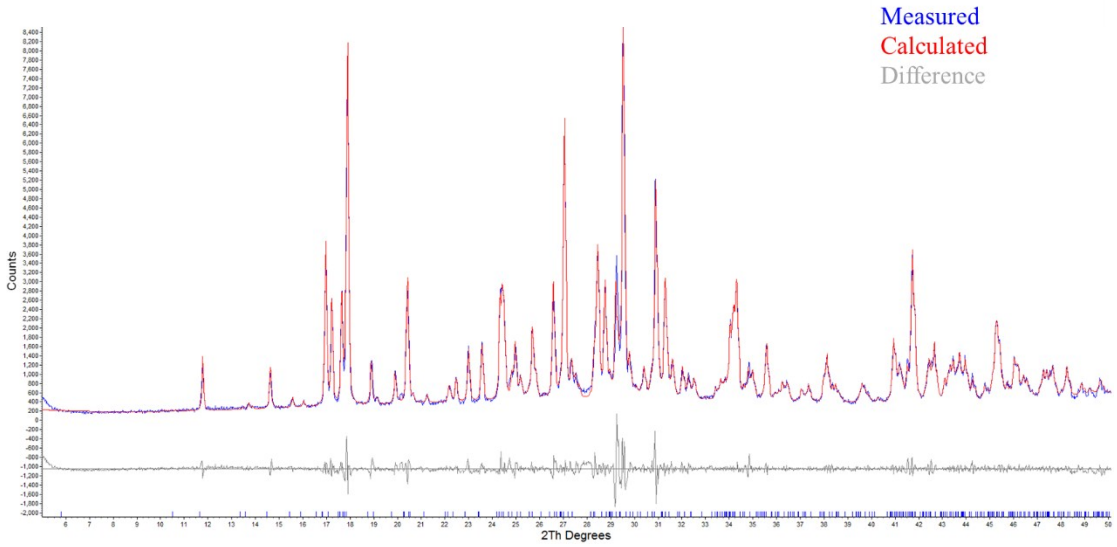

Figure S2. Pawley fit of the powder diffraction data to the structure of $[Ba_3Pb(H_2O)][B_{11}O_{19}(OH)_3]$.