

Investigations on the Polymorphism and Pseudopolymorphism of Clobetasone Butyrate

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Supplementary Material

- ❖ Experimental and calculated X-ray powder pattern for form **I**.
- ❖ Experimental and calculated X-ray powder pattern for the methanol solvate.
- ❖ Experimental X-ray powder patterns of the residues obtained after the first and second endothermic peak in the DSC measurements of the methanol solvate. The low intense reflections origin form reflections of the sample holder.
- ❖ IR spectra of the amorphous forms and of form **I**,
- ❖ Raman spectra of the amorphous forms and of form **I**,
- ❖ Experimental X-ray powder pattern of an amorphous sample stored at RT over 3 weeks.
- ❖ Experimental X-ray powder pattern of an amorphous sample stored at RT over 5 weeks and calculated pattern for form **I**.
- ❖ Microscopic images of crystals of form **I** and the methanol solvate of clobetasone butyrate.

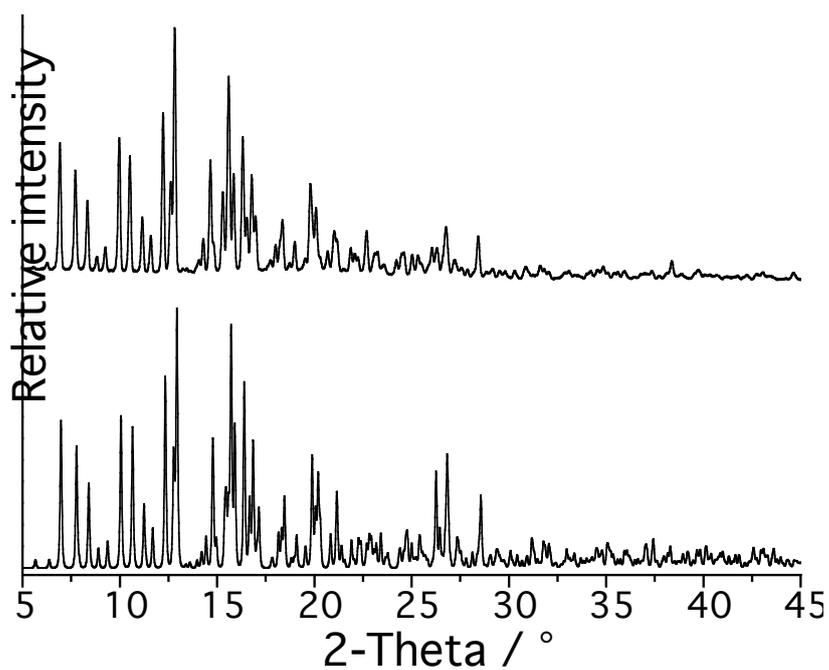


Fig. S1: Experimental (top) and calculated (bottom) X-ray powder pattern for form I.

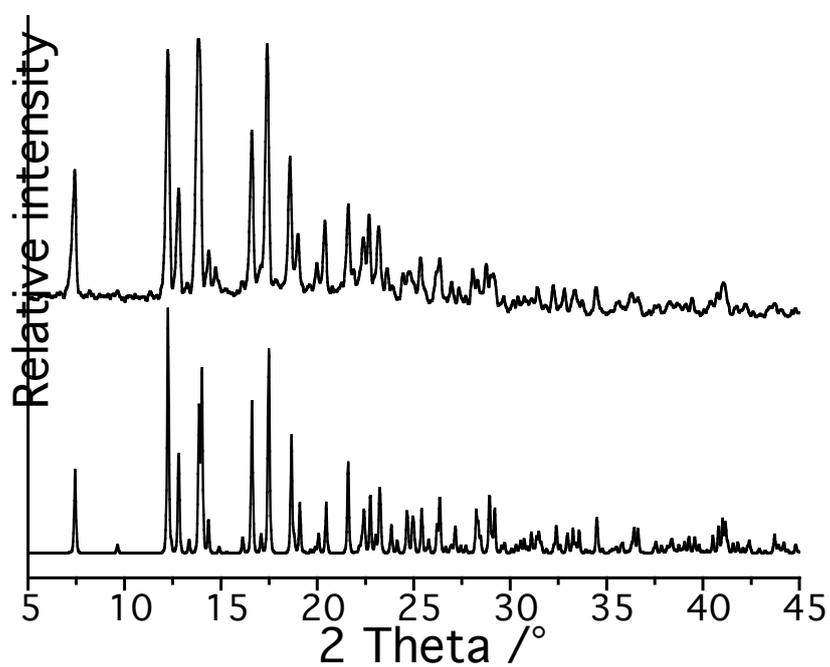


Fig. S2: Experimental (top) and calculated (bottom) X-ray powder pattern for the methanol solvate.

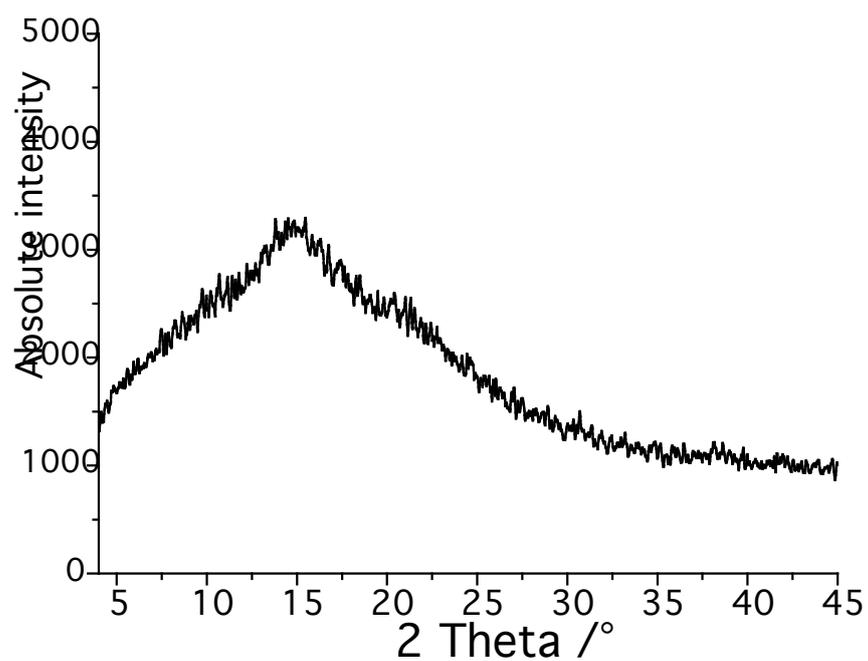
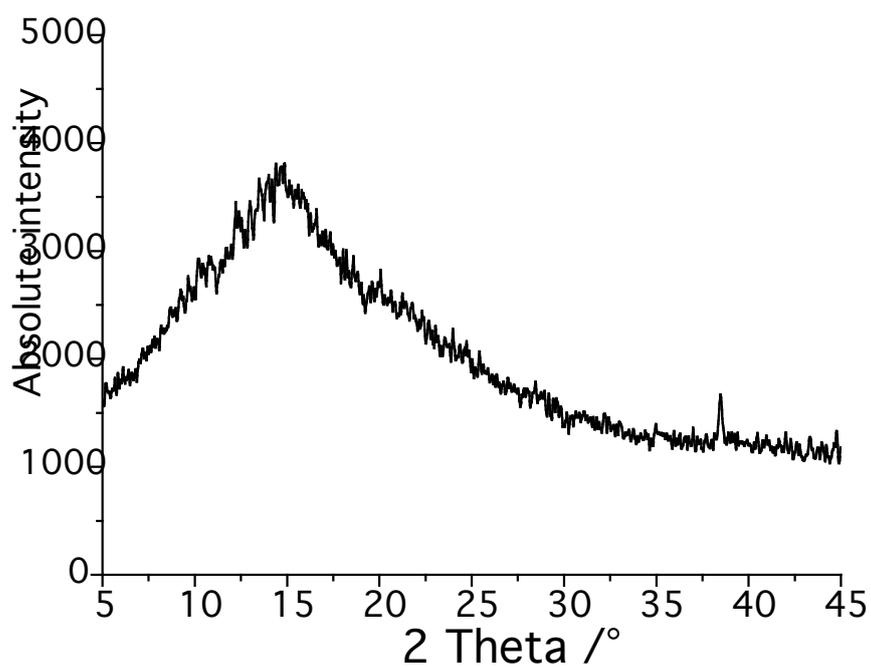


Fig. S3: Experimental X-ray powder patterns of the residues obtained after the first (top) and second (bottom) endothermic peak in the DSC measurements of the methanol solvate. The low intense reflection at about 38° origin from the sample holder.

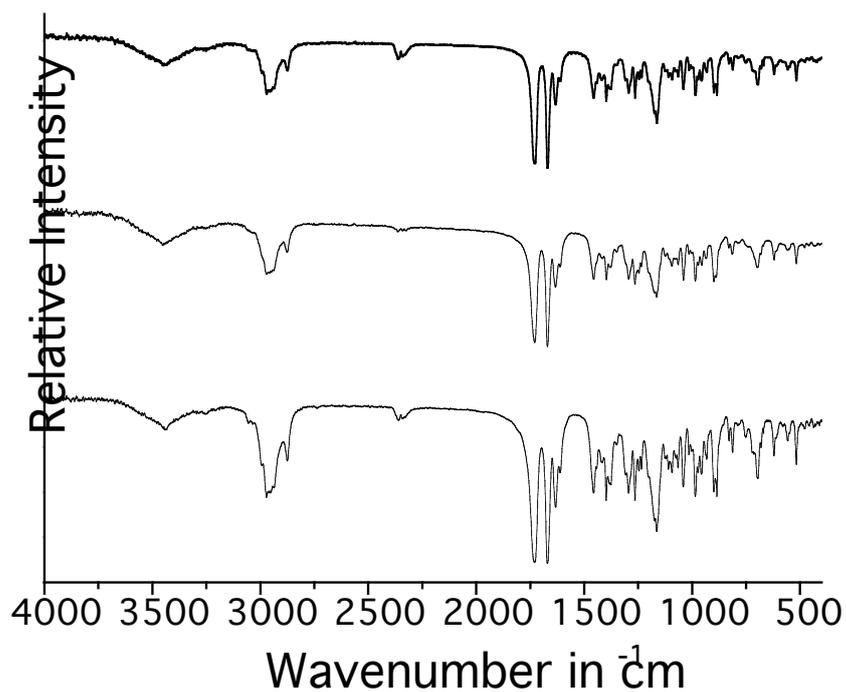


Fig. S4: IR spectra of form I (top) and the amorphous forms (mid and bottom).

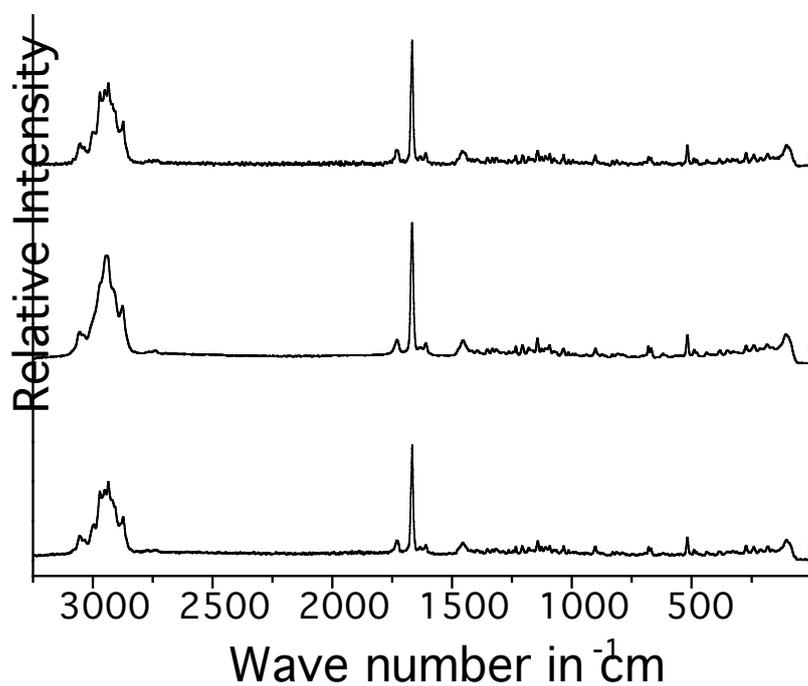


Fig. S6: Raman spectra of form I (top) and the amorphous forms (mid and bottom).

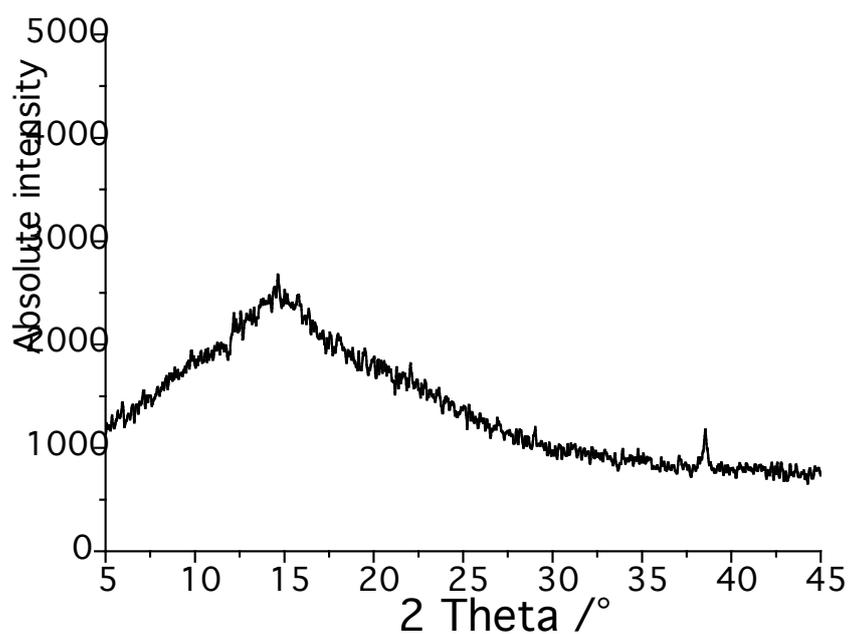


Fig. S7: Experimental X-ray powder pattern of an amorphous sample stored at RT over 3 weeks. The low intense reflection at about 38° origin from the sample holder.

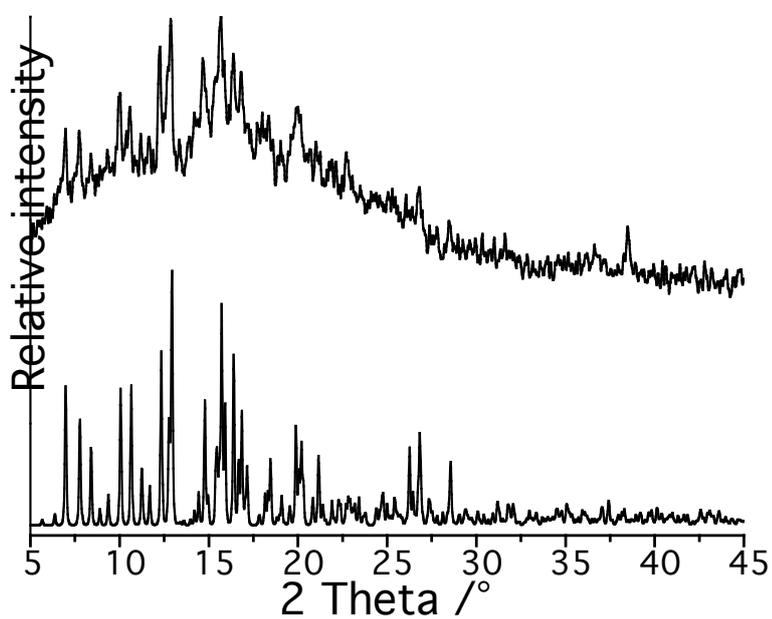


Fig. S8: Experimental X-ray powder pattern of an amorphous sample stored at RT over 5 weeks (top) and calculated pattern for form I (bottom). The low intense reflection at about 38° origin from the sample holder.

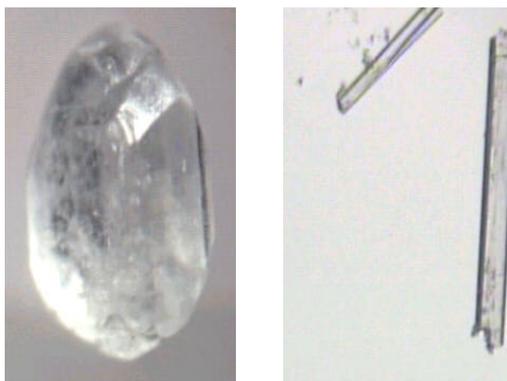


Fig. S9. Microscopic images of crystals of form **I** (left) and the methanol solvate (right) of clobetasone butyrate.