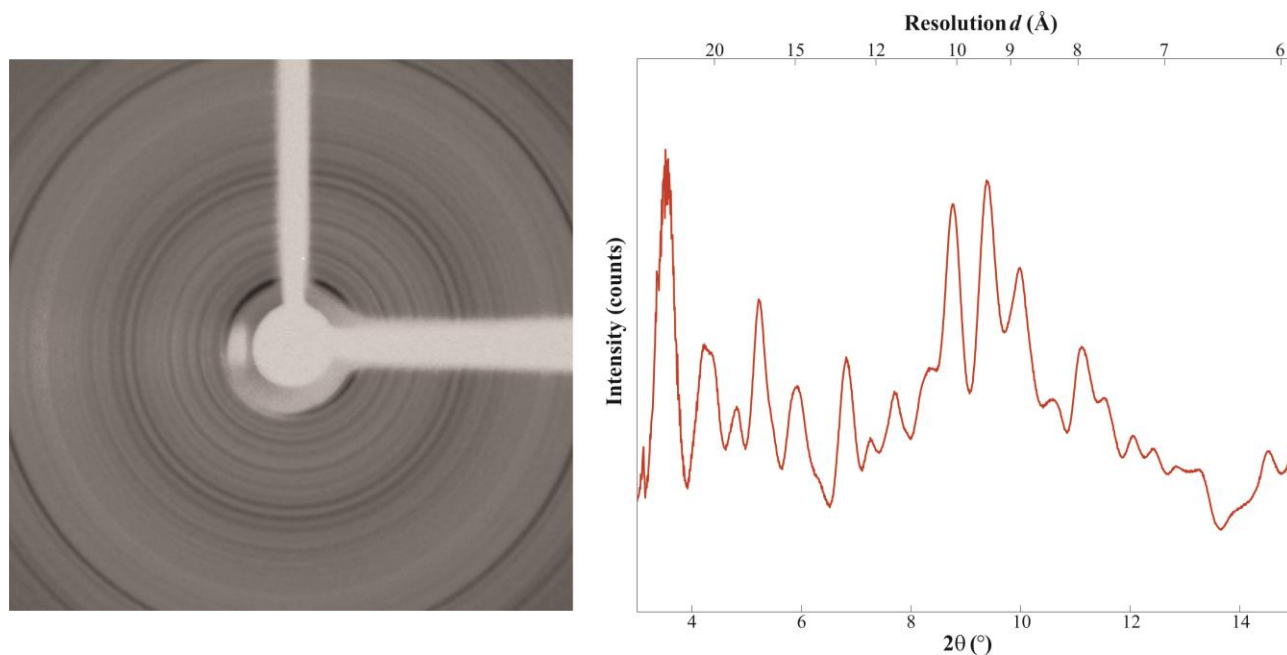


### Supporting Information: X-ray powder diffraction at 100 K

Approximately 1  $\mu\text{l}$  of wetted Savinase microcrystals from the production sample was mounted in a 1 mm loop and vitrified at 100 K on the goniometer. Data were collected for 12 minutes on an Agilent Supernova diffractometer using Cu  $K\alpha$  radiation ( $\lambda = 1.5419 \text{ \AA}$ ). The sample was rotated around  $\phi$  with a speed of  $1^\circ/\text{s}$  during the data collection. The powder diffraction pattern is shown in Figure A. The unit cell dimensions were determined from a pattern profile fit in the  $2\theta$ -range  $3.1\text{--}13.0^\circ$  resulting in  $a=46.6$ ,  $b=61.5$   $c=75.1 \text{ \AA}$ .



**Figure S1.** XRPD pattern of the Savinase production sample collected at 100 K. (left) 2D-pattern (right) integrated 1D pattern