

# Electronic supplementary information for: Rapid Preparation of Pharmaceutical Co-Crystals with Thermal Ink-Jet Printing

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Table S1. Intensity maxima (2θ) for the 2:1 BA:IsoNCT co-crystals produced from water or by TIJP

Water	6.3	12.3	12.6	17.0	18.6	18.9	25.3	28.3
TIJP	6.1	12.1	12.4	16.9	18.6	n/d	25.5	28.1

Table S2. Intensity maxima (2θ) for the 1:1 NCT:IsoNCT co-crystals produced from water, ethanol or by TIJP

Water/EtOH	12.6	17.4	20.6	22.0	22.7	23.7	25.5	27.8
TIJP	12.9	17.7	20.7	22.2	22.8	-	25.6	-

Table S3. Co-former solutions printed with TIJP showing melting points of individual components, the molar ratio and the melting point of the co-crystal produced.

Comp. 1	mp / °C	Comp. 2	mp / °C	Ratio	Co-crystal	mp / °C
ABZ	188.5	IsoNCT	157.4	3:1	Yes	146.0
ABZ	188.5	IsoNCT	157.4	1:1	Yes	144.4
HBZ	216.0	IsoNCT	157.4	3:1	Yes	172.3
HBZ	216.0	IsoNCT	157.4	1:1	Yes	182.3
MABZA	111.9	IsoNCT	157.4	3:1	Yes	98.4
ABZ	188.5	BA	124.0	1:1	Yes	182.6
THP	272.3	NCT	129.6	1:1	Yes	172.6
SAC	228.3	CBZ	189.2	1:1	Yes	176.0

Table S4: Characteristic FTIR absorbance maxima for the co-crystals produced with TIJP.

Comp. 1	Comp. 2	Ratio	FTIR maxima (cm <sup>-1</sup> )
ABZ	IsoNCT	3:1	3363, 3186, 3050, 2646, 1664, 1552, 1416, 1262
ABZ	IsoNCT	1:1	3440, 3396, 3362, 3048, 2792, 1668, 1514, 1405, 1310, 1262, 1116, 1101
HBZ	IsoNCT	3:1	3456, 3183, 2989, 2902, 2802, 2678, 2495, 1673, 1607, 1550, 1269, 1068
HBZ	IsoNCT	1:1	3455, 3325, 2801, 2681, 2611, 1638, 1591, 1513, 1408, 1310, 1268, 1249, 1124, 1068
MABZA	IsoNCT	3:1	1569, 1556, 1413, 1402,
ABZ	BA	1:1	3361, 3229, 1911, 1519
THP	NCT	1:1	3398, 3361, 3210, 3100, 2988, 2826, 2776, 2703, 2625, 1682, 1645, 1612, 1480, 1419, 1404, 1328, 1249, 1172, 1120, 1105, 1058
SAC	CBZ	1:1	3472, 3337, 3277, 3177, 3024, 1729, 1667