

Fig. 1 - Powder X-ray diffractogram of the prior art amorphous state form of (S)-7-Oxa-2-aza-spiro[4.5]decane-2-carboxylic acid [7-(3,6-dihydro2H-pyran-4-yl)-4-methoxy-thiazolo[4,5-c]pyridin-2-yl]-amide

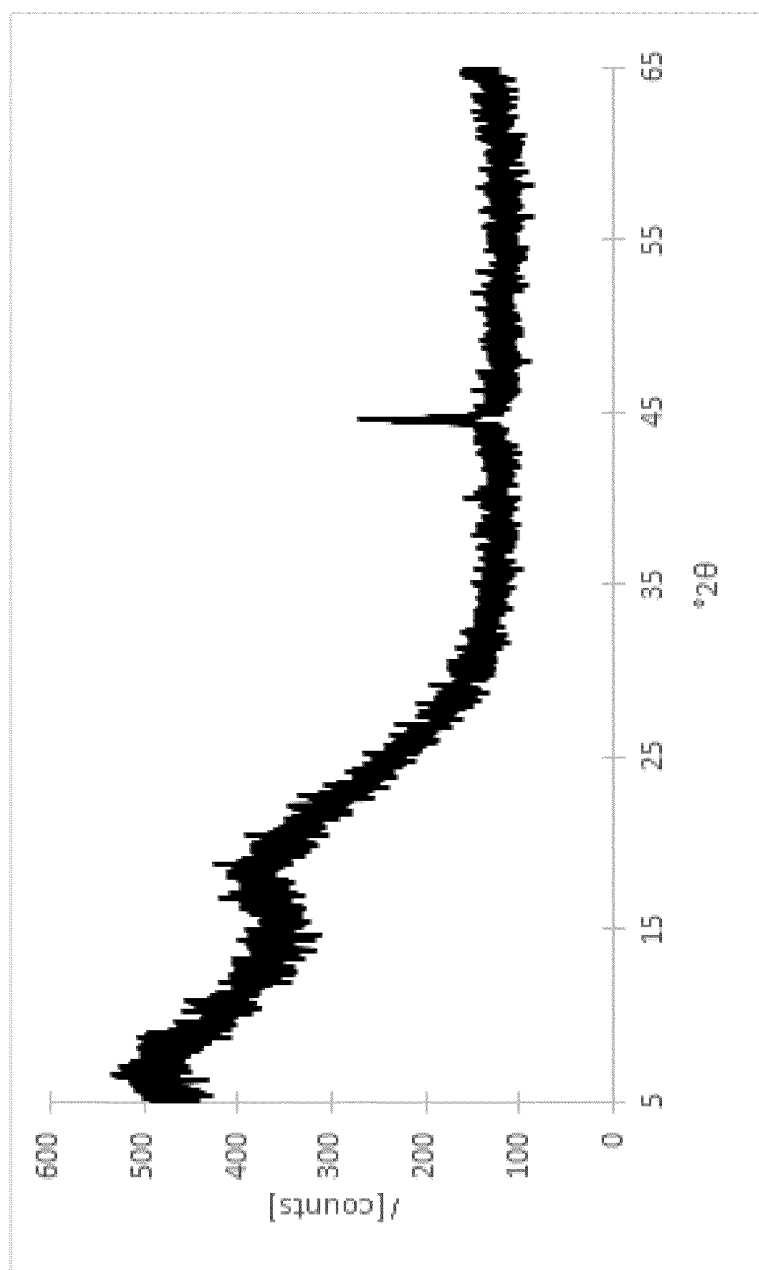
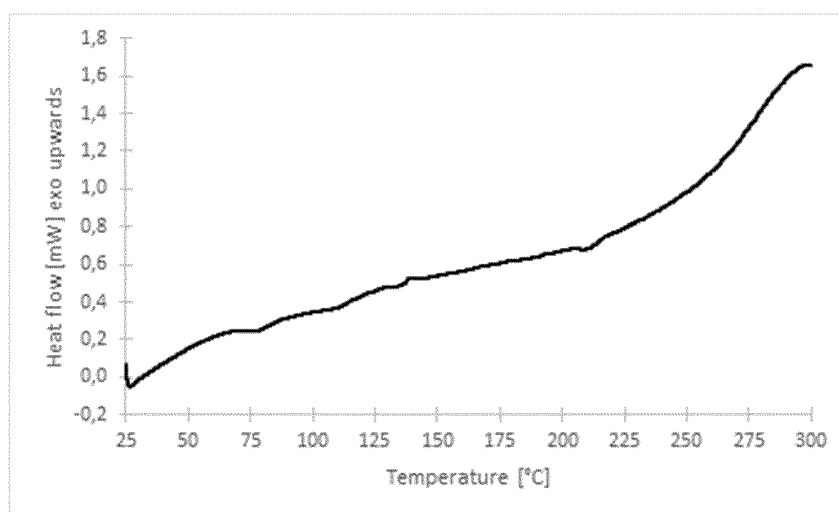


Fig. 2 – Fig. 2A DSC scan of the amorphous state form (5 K/min), Fig. 2B TGA scan of the amorphous state form (5 K/min) of (S)-7-Oxa-2-aza-spiro[4.5]decane-2-carboxylic acid [7-(3,6-dihydro2H-pyran-4-yl)-4-methoxy-thiazolo[4,5-c]pyridin-2-yl]-amide

A



B

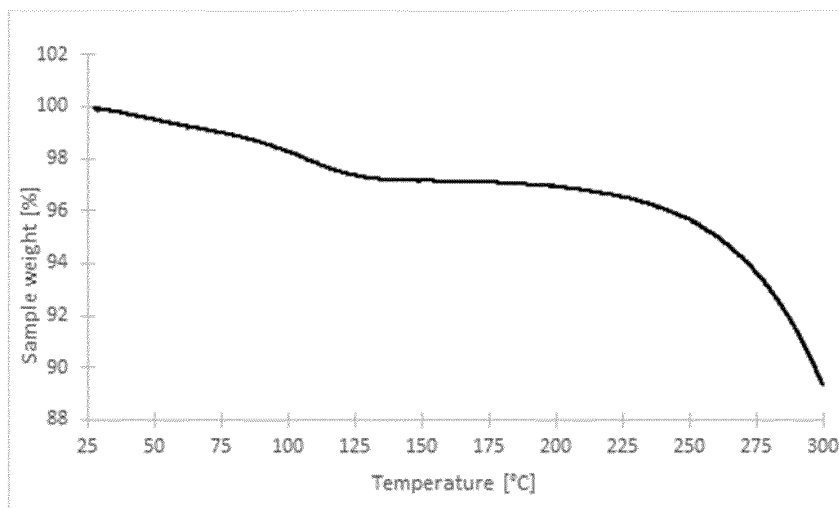


Fig. 3 - Water Vapour Sorption Isotherm (25°C) of the amorphous state form

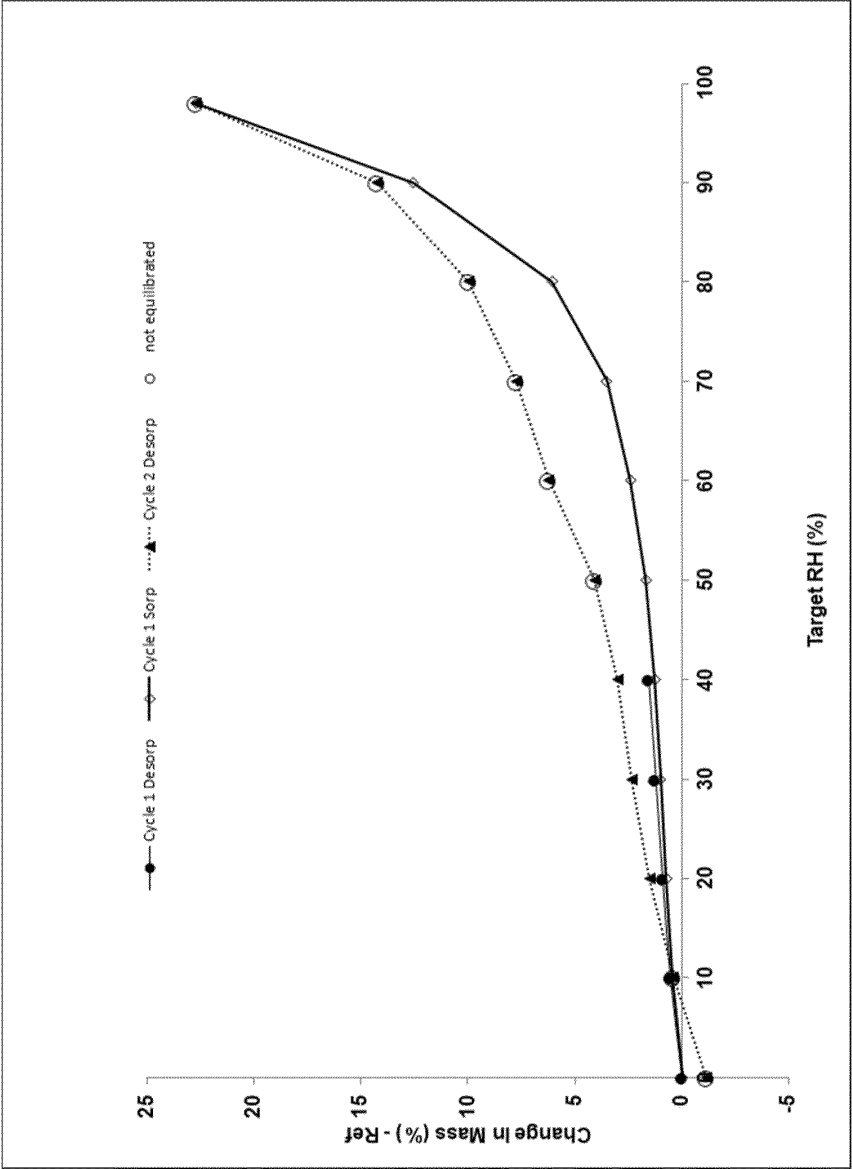


Fig. 4 - Powder X-ray diffractogram of the crystalline anhydrous form A1

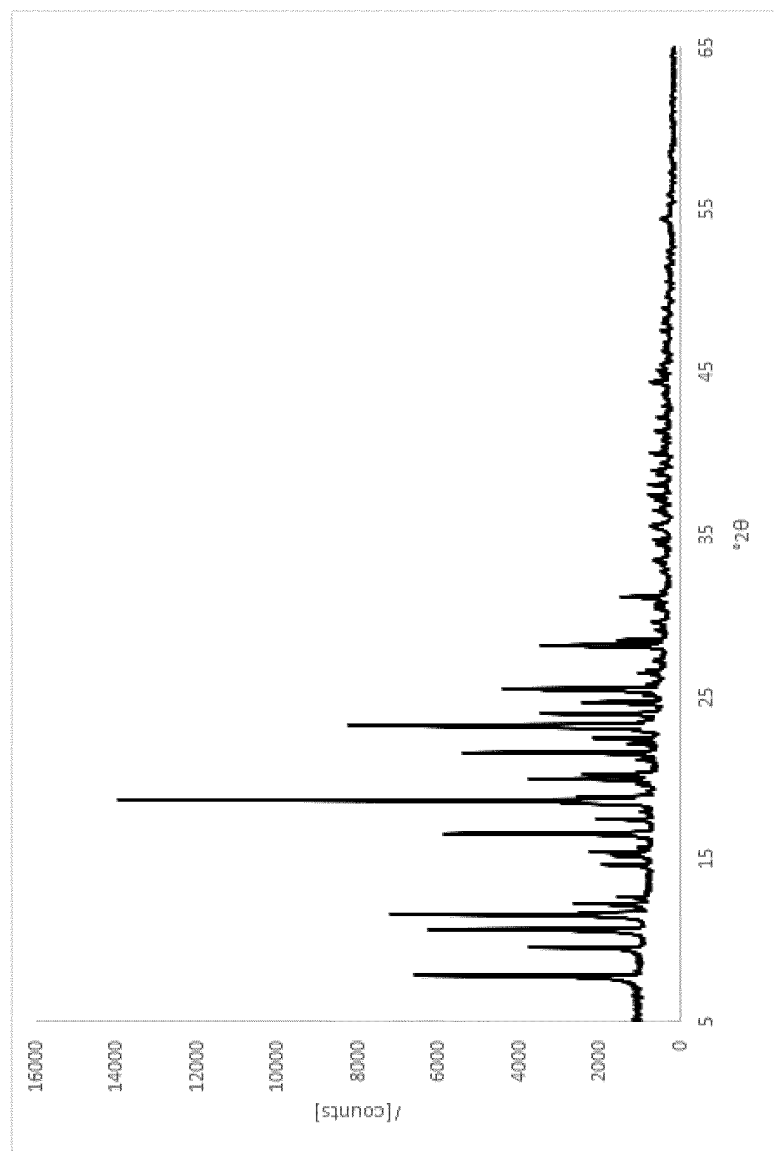
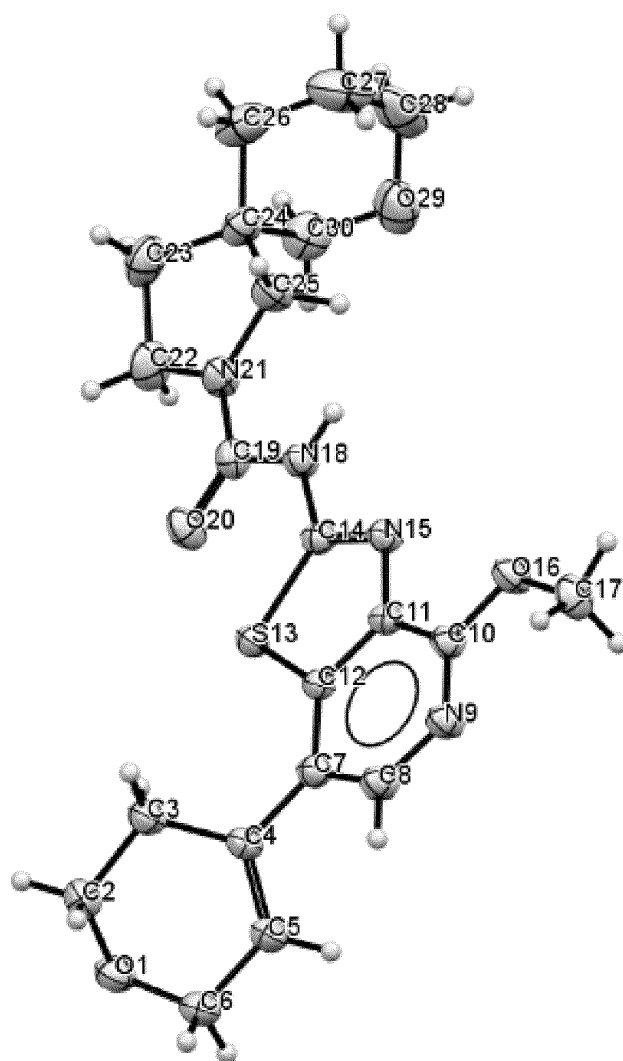


Fig. 5 - Single crystal x-ray structure data of the crystalline anhydrous form A1



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**Fig. 6 - (6A) DSC scan of the crystalline anhydrous form A1 (5 K/min),
(6B) TGA scan of the crystalline anhydrous form A1 (5 K/min)**

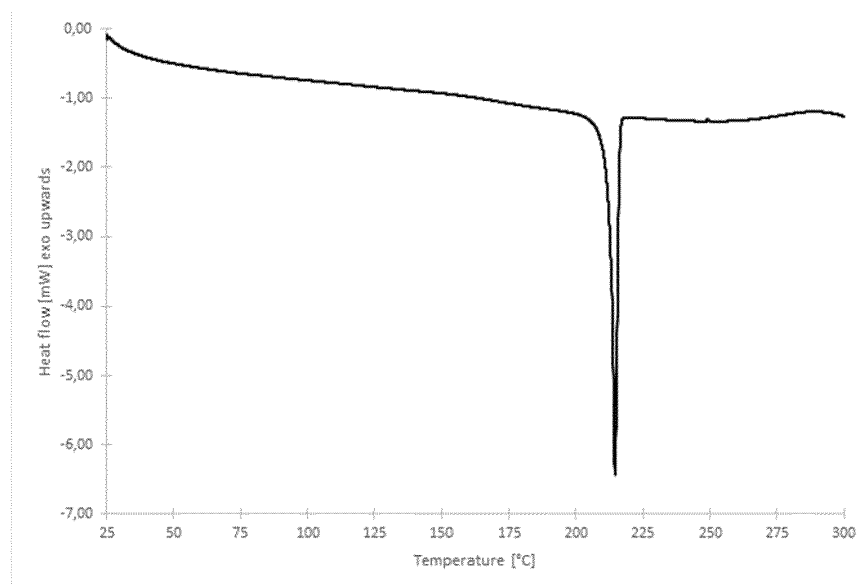
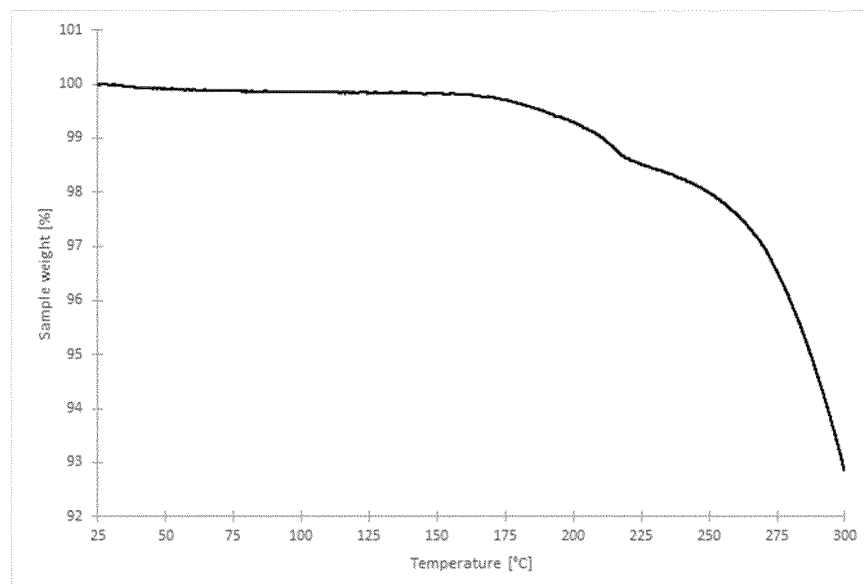
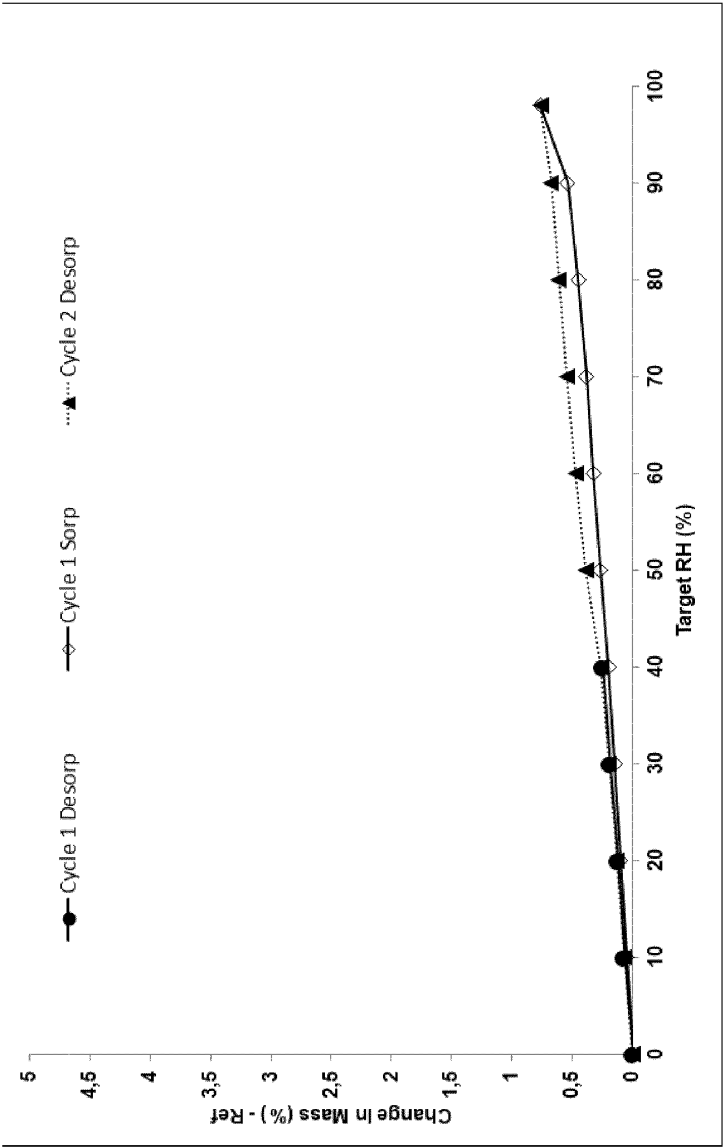
A**B**

Fig. 7 - Water Vapour Sorption Isotherm (25°C) of the crystalline anhydrous form A1



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Fig. 8 - Powder X-ray diffractogram of the hydrate form NF2

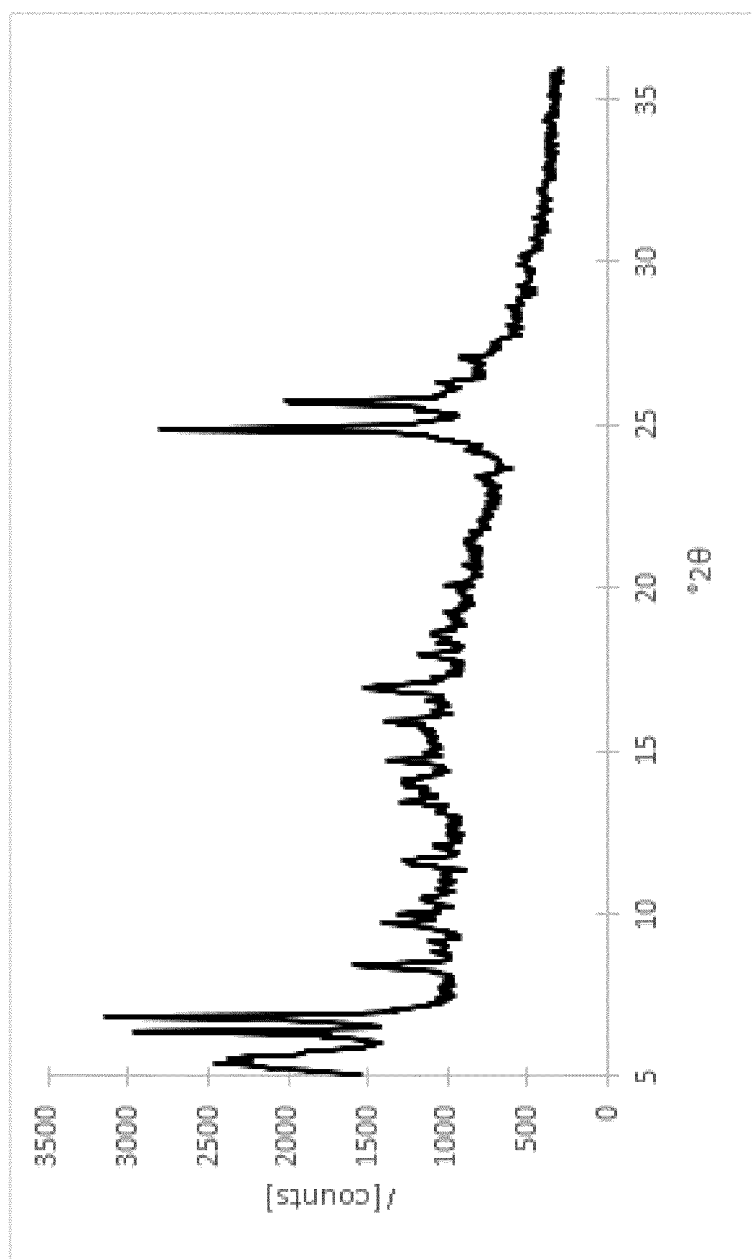


Fig. 9 - Powder X-ray diffractogram of the hydrate form NF3

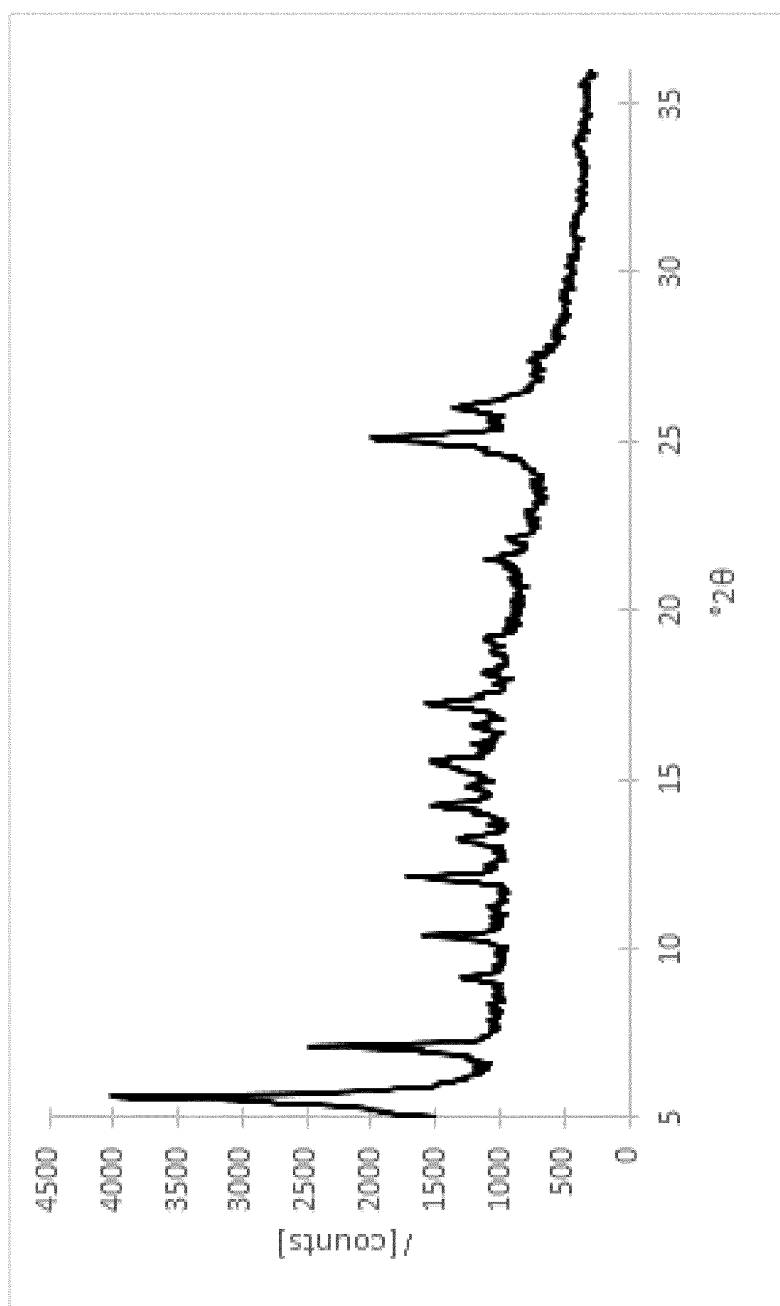


Fig. 10 - Powder X-ray diffractogram of the hydrate form NF4

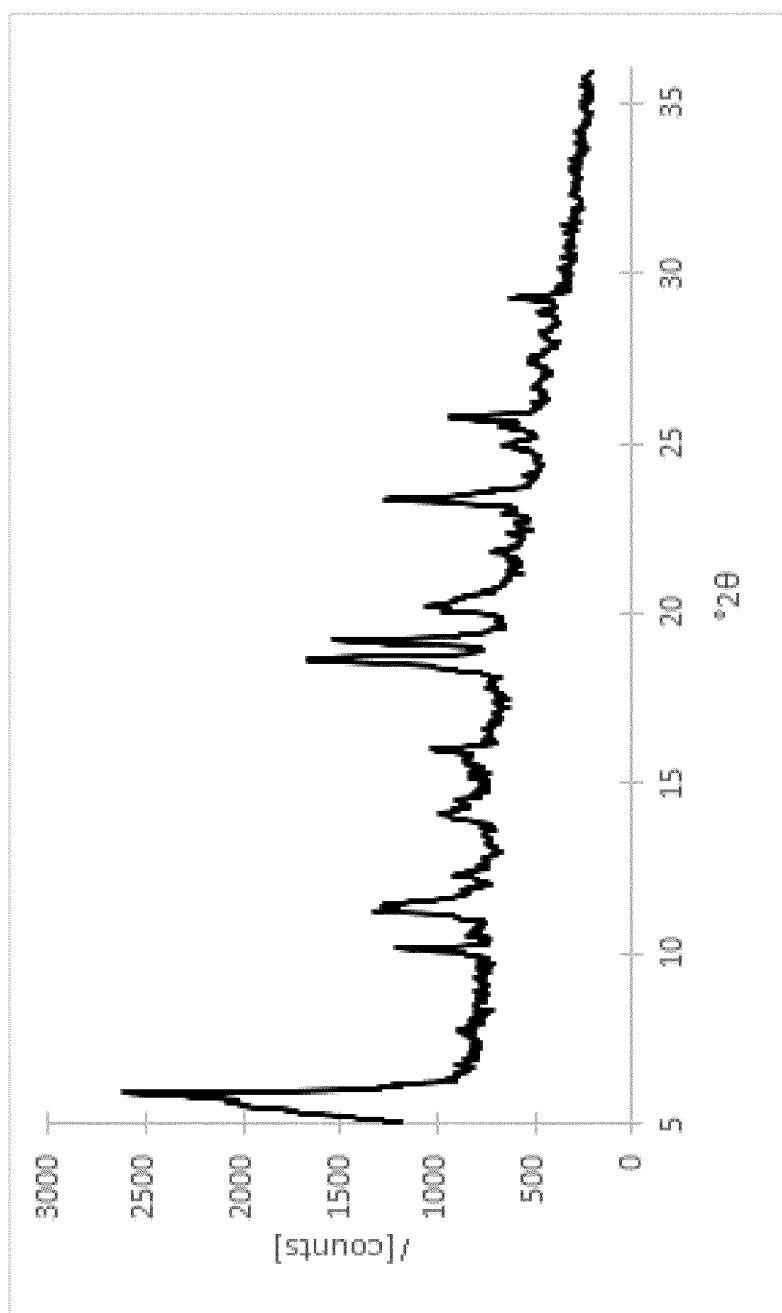
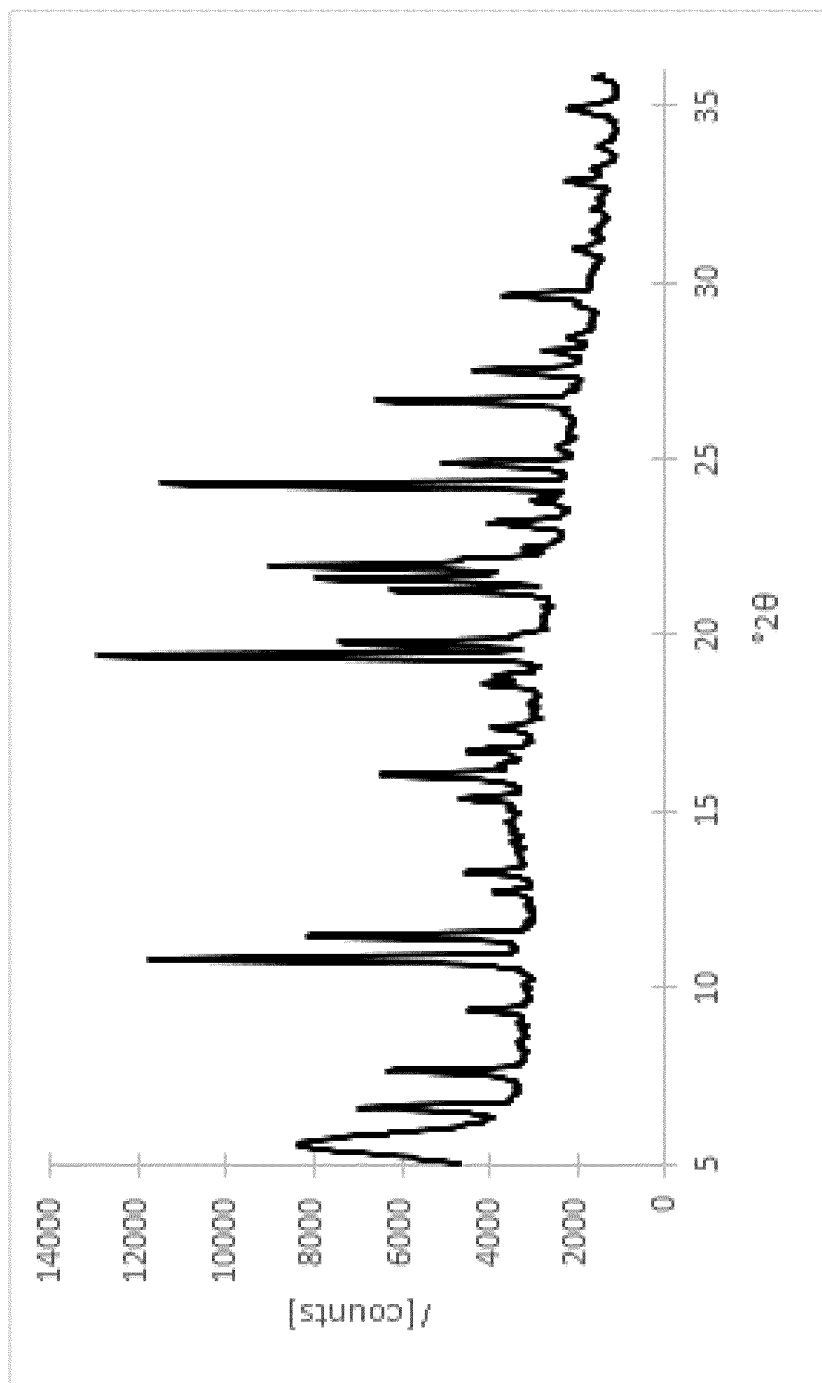


Fig. 11 - Powder X-ray diffractogram of the hydrate form NF12



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Fig. 12 - Powder X-ray diffractogram of the mono fumaric acid co-crystal form A1

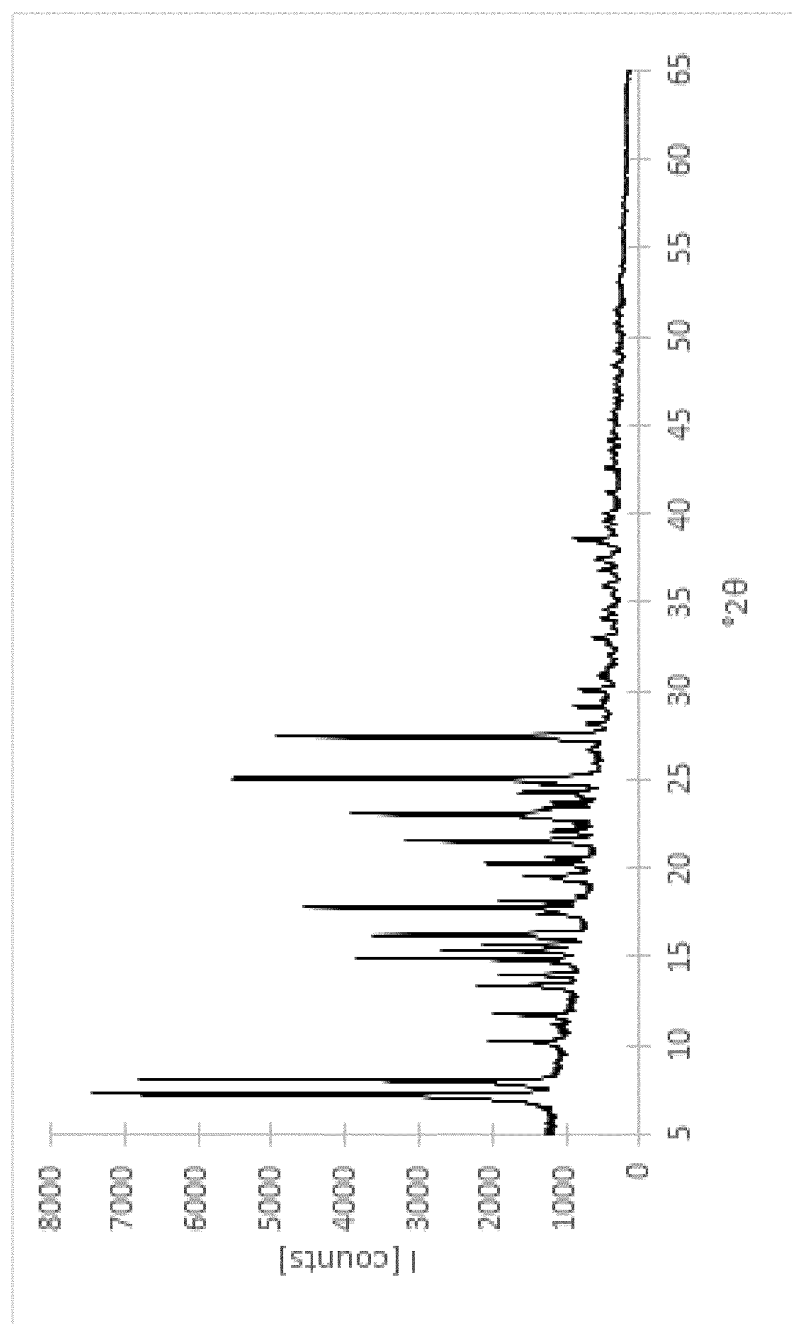
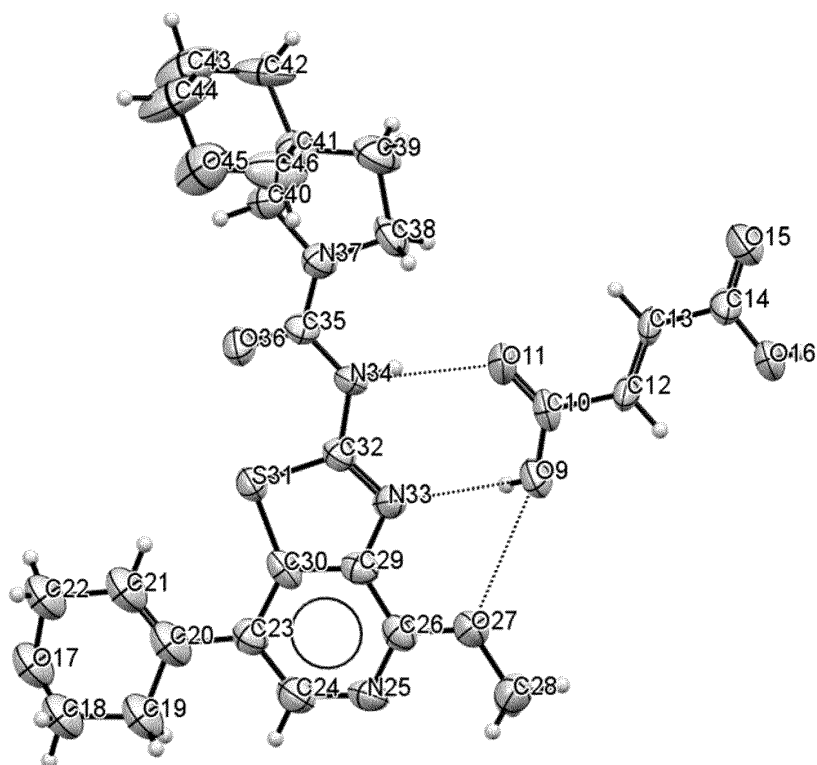


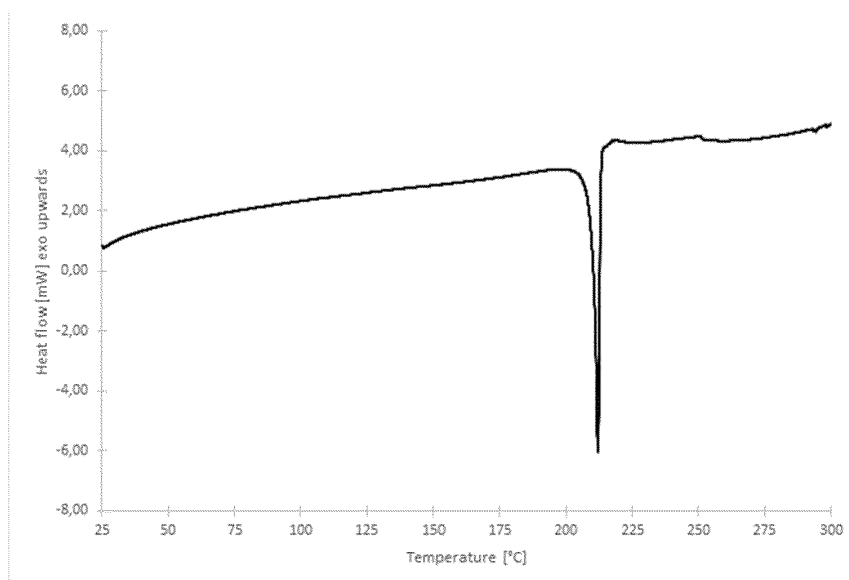
Fig. 13 - Single crystal structure of the mono fumaric acid co-crystal form A1



for better clarity, only part of the unit cell is shown, illustrating hydrogen bonds between different molecules in the structure

Fig. 14 – (14A) DSC scan of the mono fumaric acid co-crystal form A1 (5 K/min), (14B) TGA scan of the mono fumaric acid co-crystal form A1 (5 K/min)

A



B

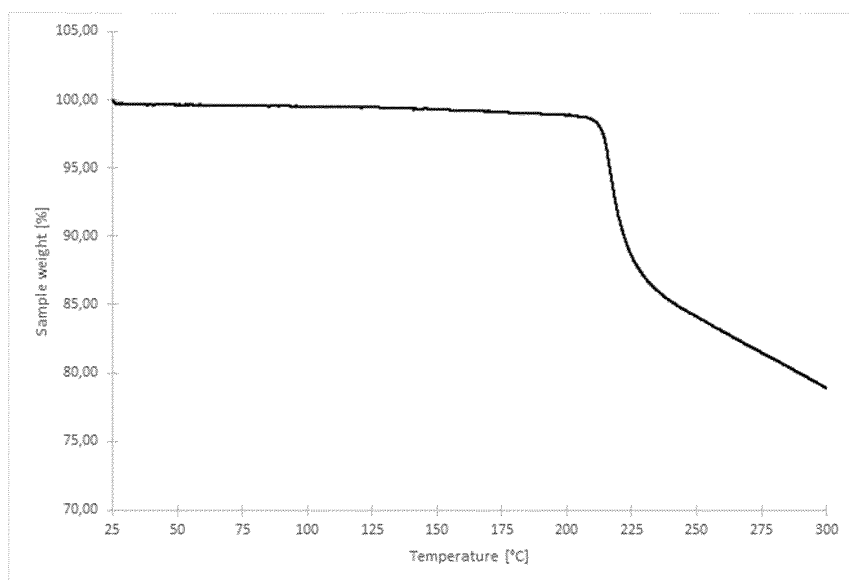


Fig. 15 - Water Vapour Sorption Isotherm (25°C) of the mono fumaric acid co-crystal form A1

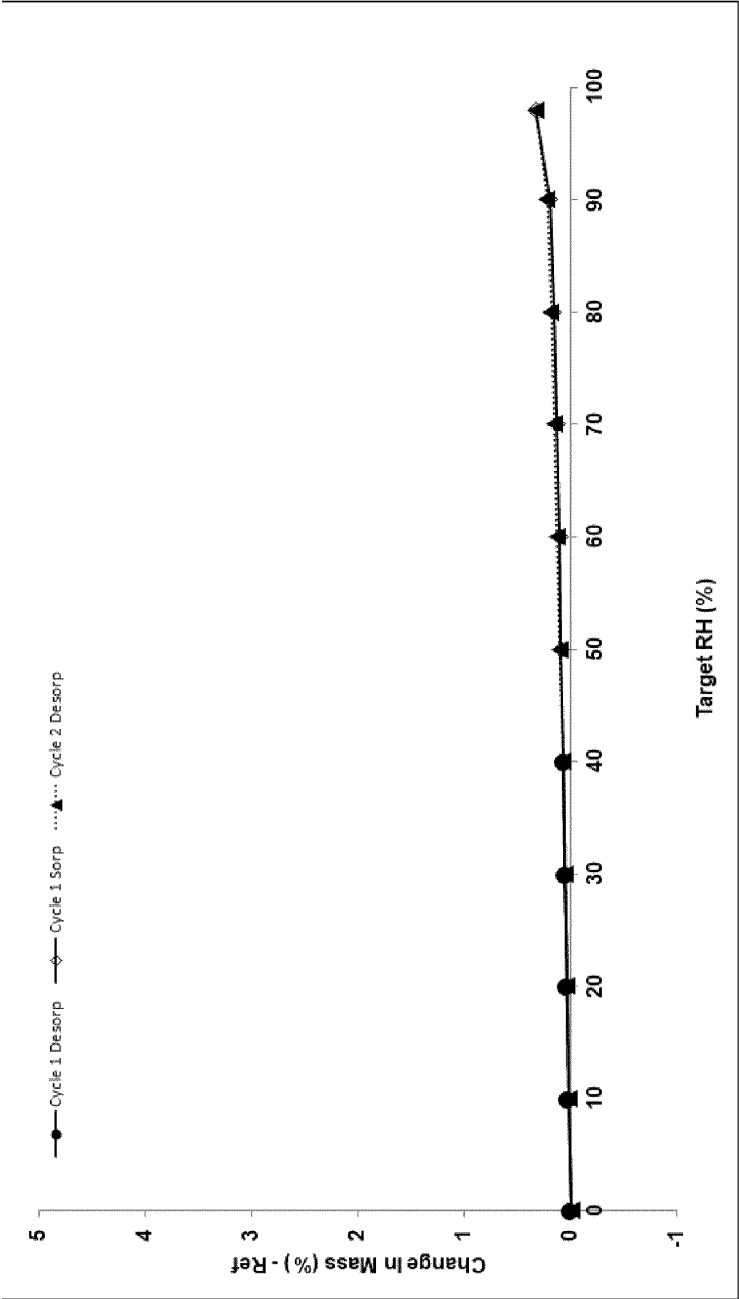
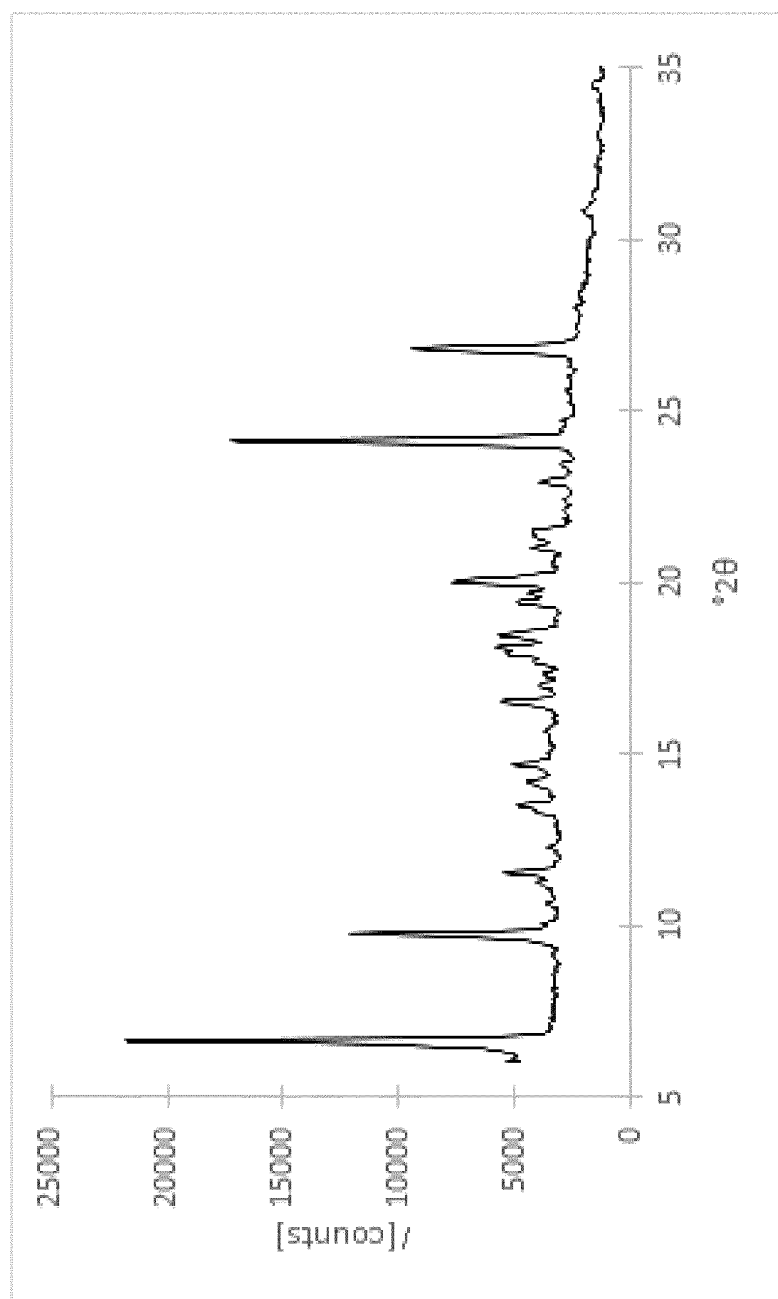
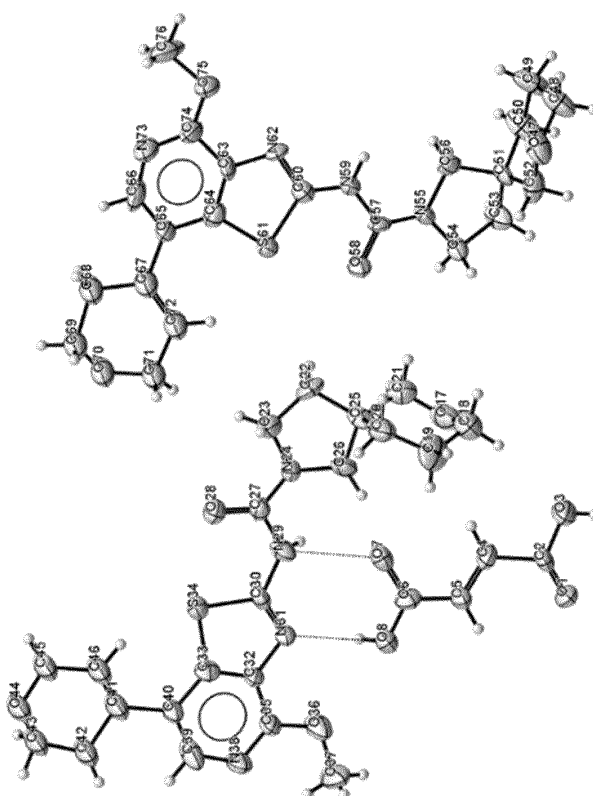


Fig. 16 - Powder X-ray diffractogram of the hemi fumaric acid co-crystal form A2



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Fig. 17 - Single crystal structure of the hemi fumaric acid co-crystal form A2



for better clarity, only part of the unit cell is shown, illustrating hydrogen bonds between different molecules in the structure

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Fig. 18 – (18A) DSC scan of the hemi fumaric acid co-crystal form A2 (5 K/min), (18B) TGA scan of the hemi fumaric acid co-crystal form A2 (5 K/min)

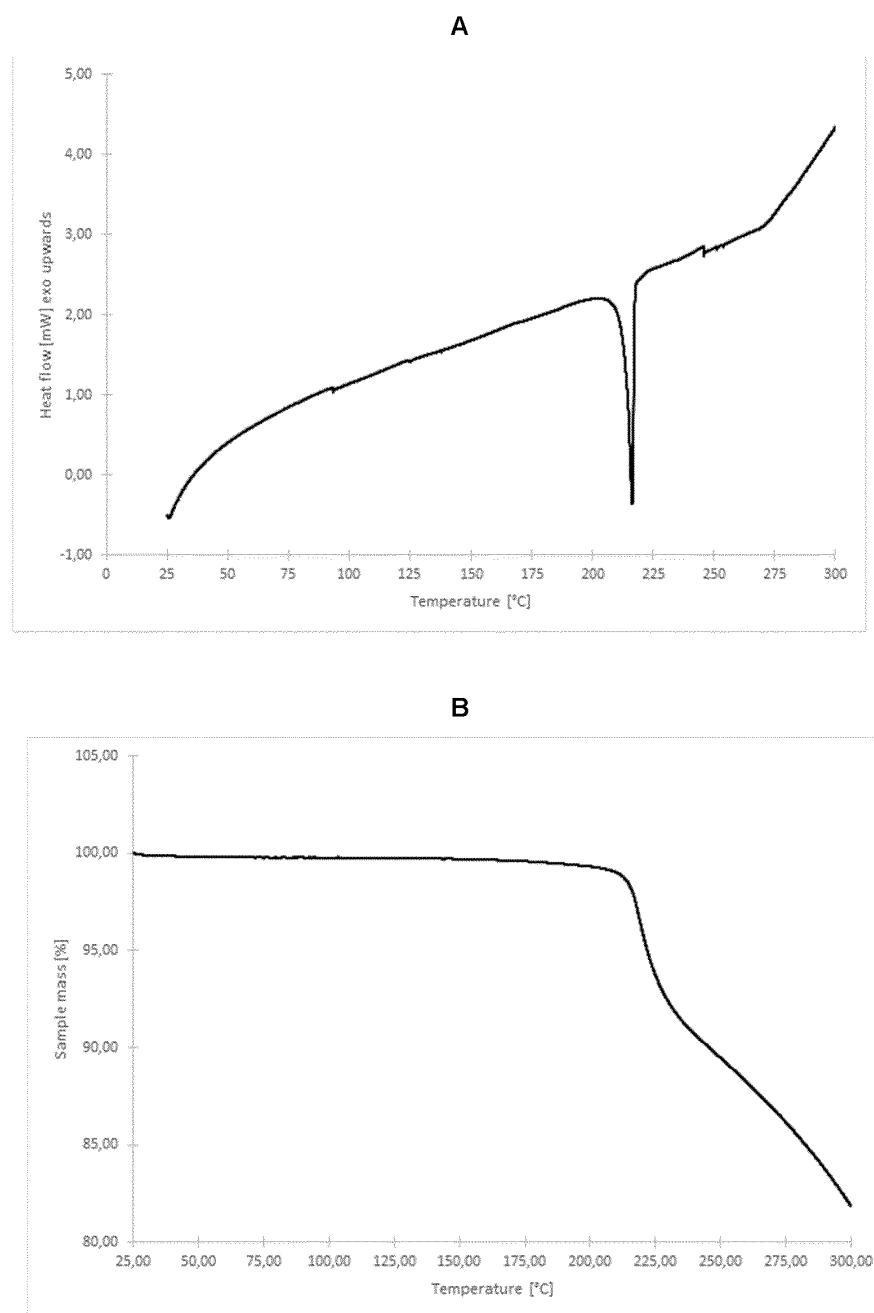
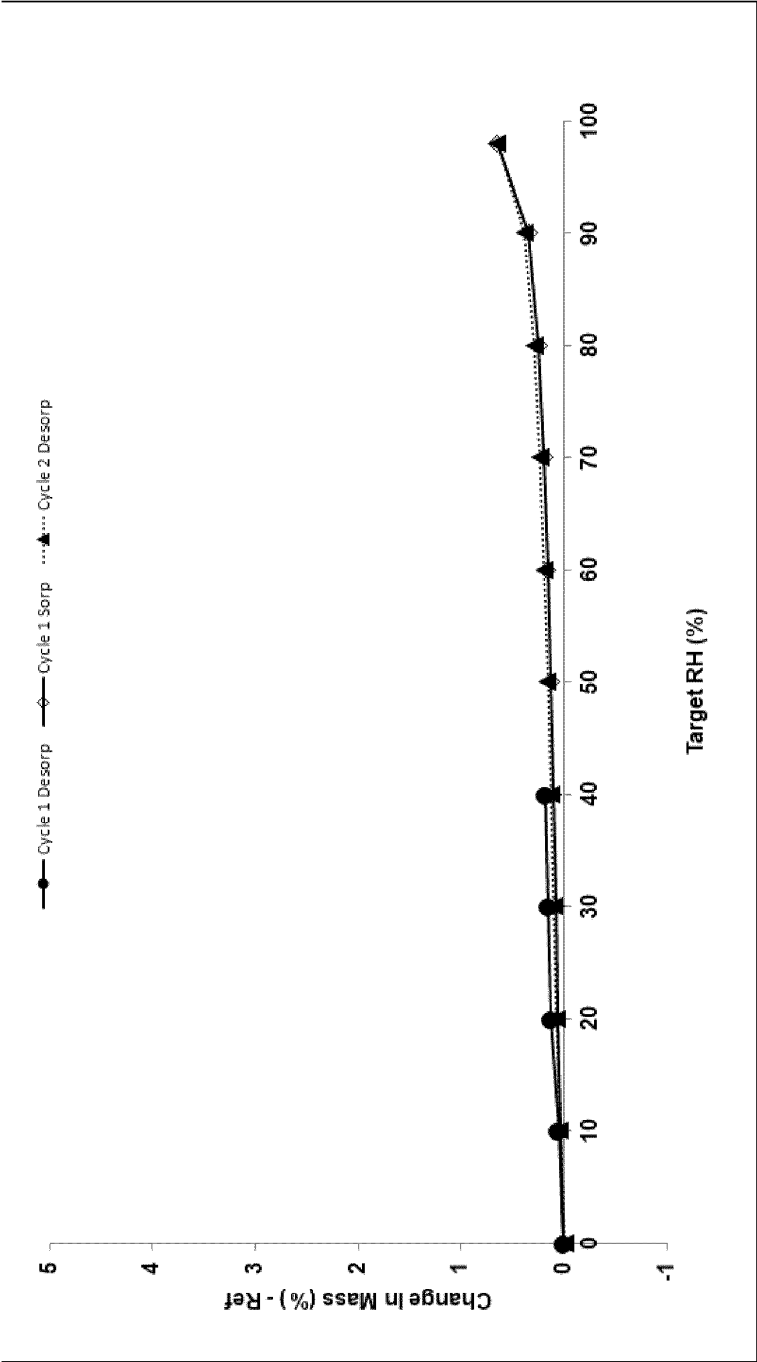
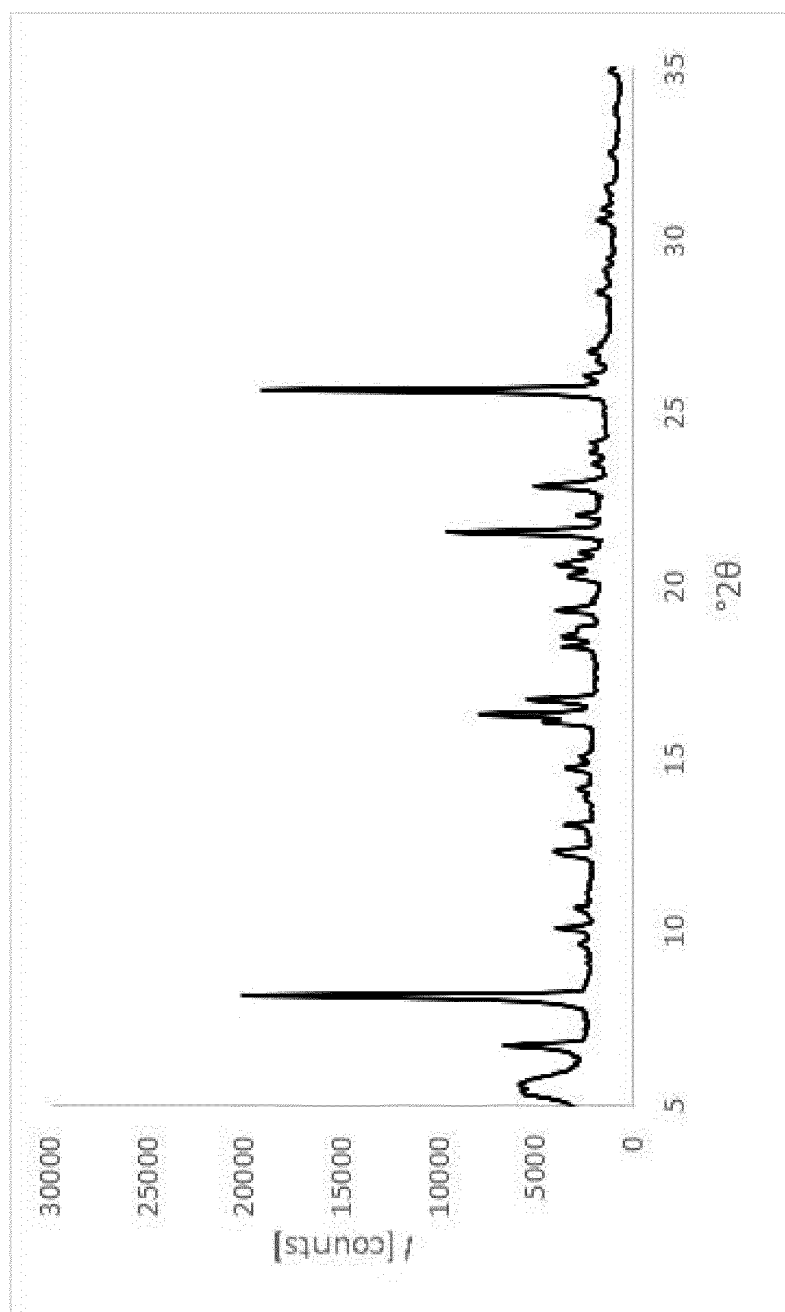


Fig. 19 - Water Vapour Sorption Isotherm (25°C) of the hemi fumaric acid co-crystal form A2



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Fig. 20 - Powder X-ray diffractogram of the hemi fumaric acid co-crystal form NF1



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Fig. 21 – (21A) DSC scan of the hemi fumaric acid co-crystal form NF1 (10 K/min), (21B) TGA scan of hemi fumaric acid co-crystal form NF1 (10 K/min)

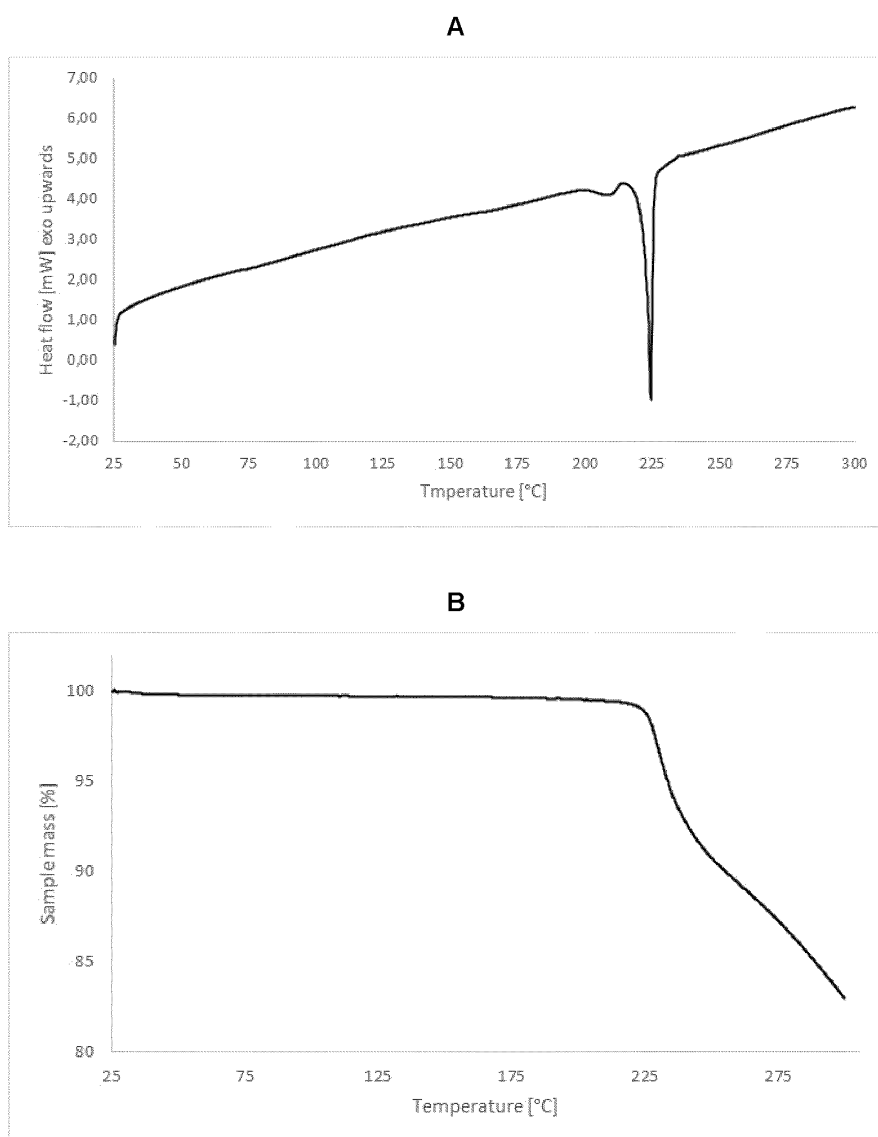
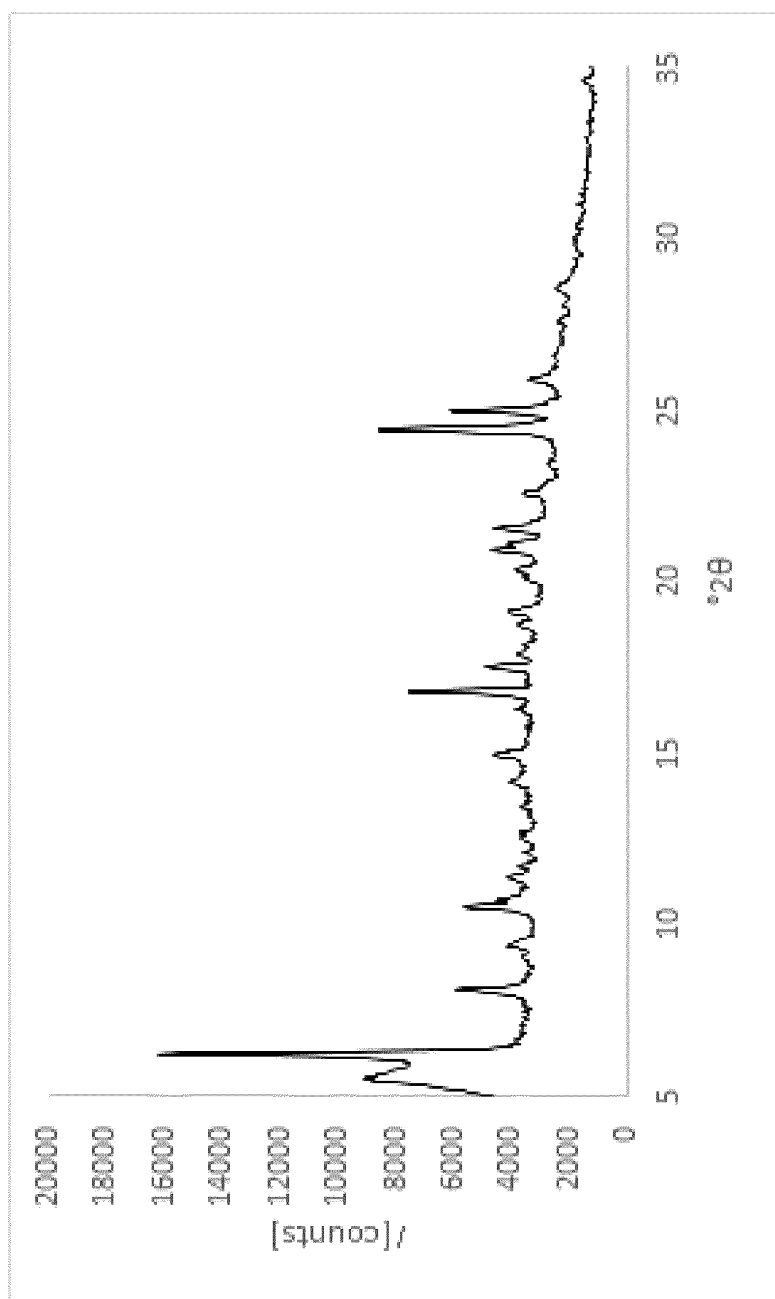


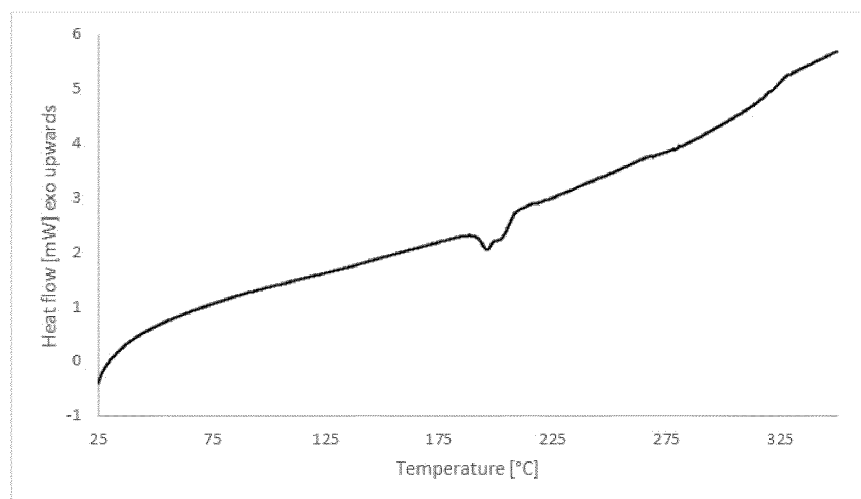
Fig. 22 - Powder X-ray diffractogram of the hemi fumaric acid co-crystal form NF2



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Fig. 23 – (23A) DSC scan of the hemi fumaric acid co-crystal form NF2 (5 K/min), (23B) TGA scan of hemi fumaric acid co-crystal form NF2 (5 K/min)

A



B

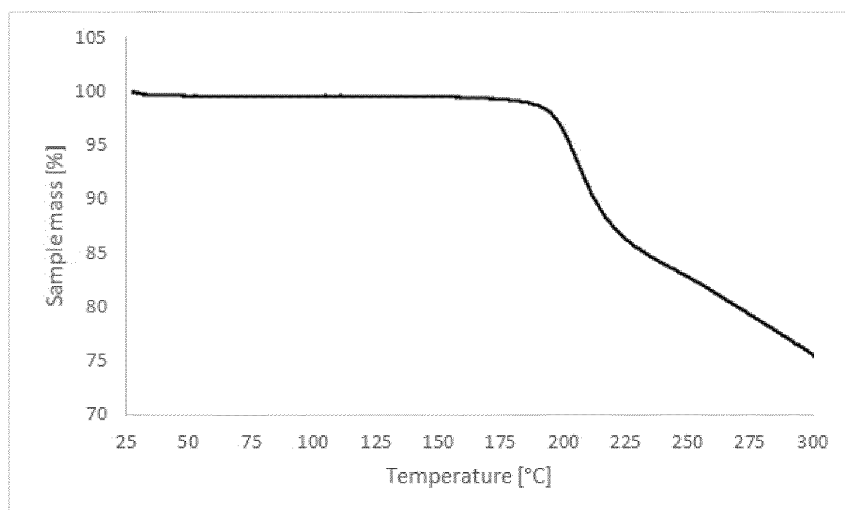
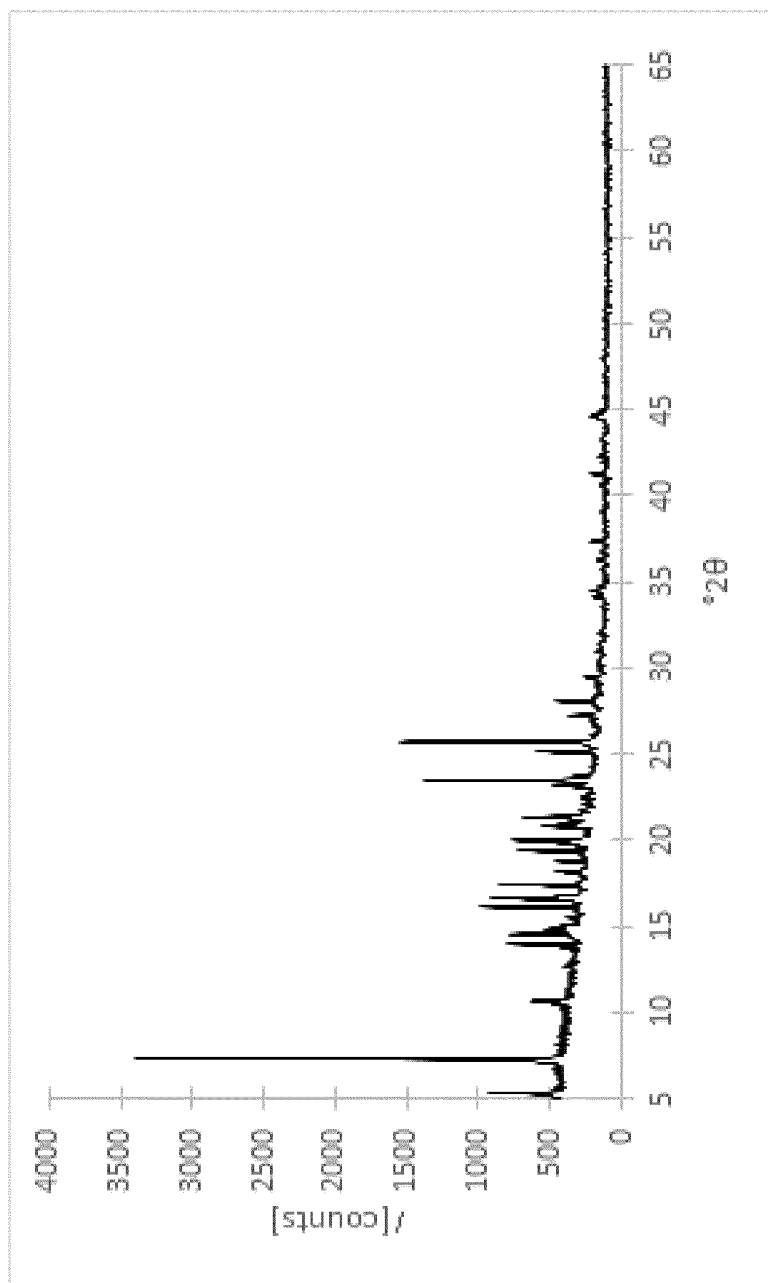


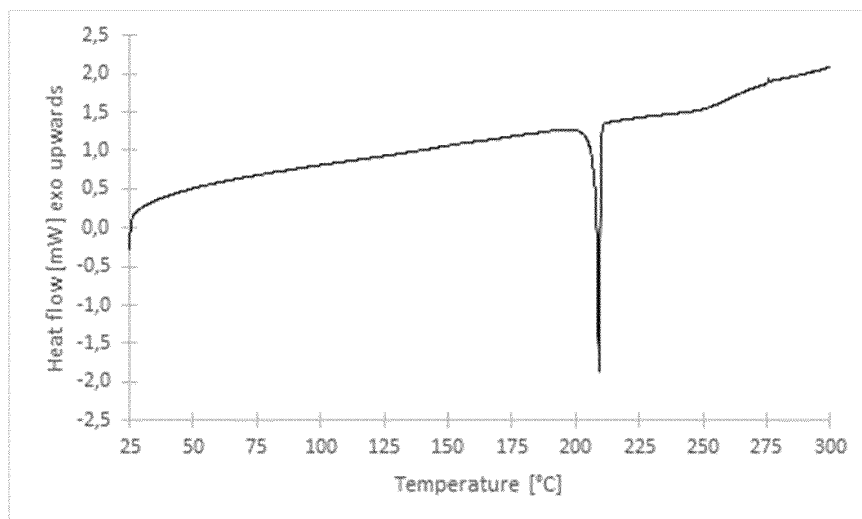
Fig. 24 - Powder X-ray diffractogram of the mono 3-hydroxybenzoic acid co-crystal form NF1



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Fig. 25 – (25A) DSC scan of the mono 3-hydroxybenzoic co-crystal form NF1 (5 K/min), (25B) TGA scan of the mono 3-hydroxybenzoic co-crystal form NF1 (5 K/min)

A



B

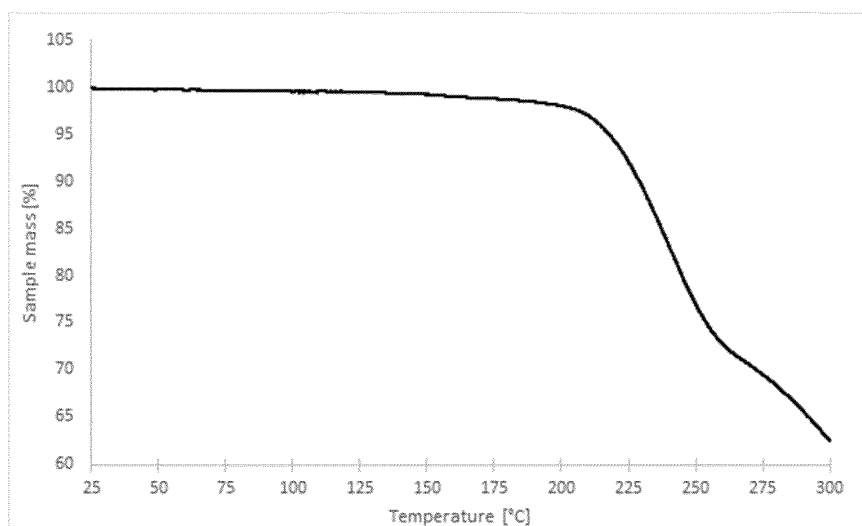
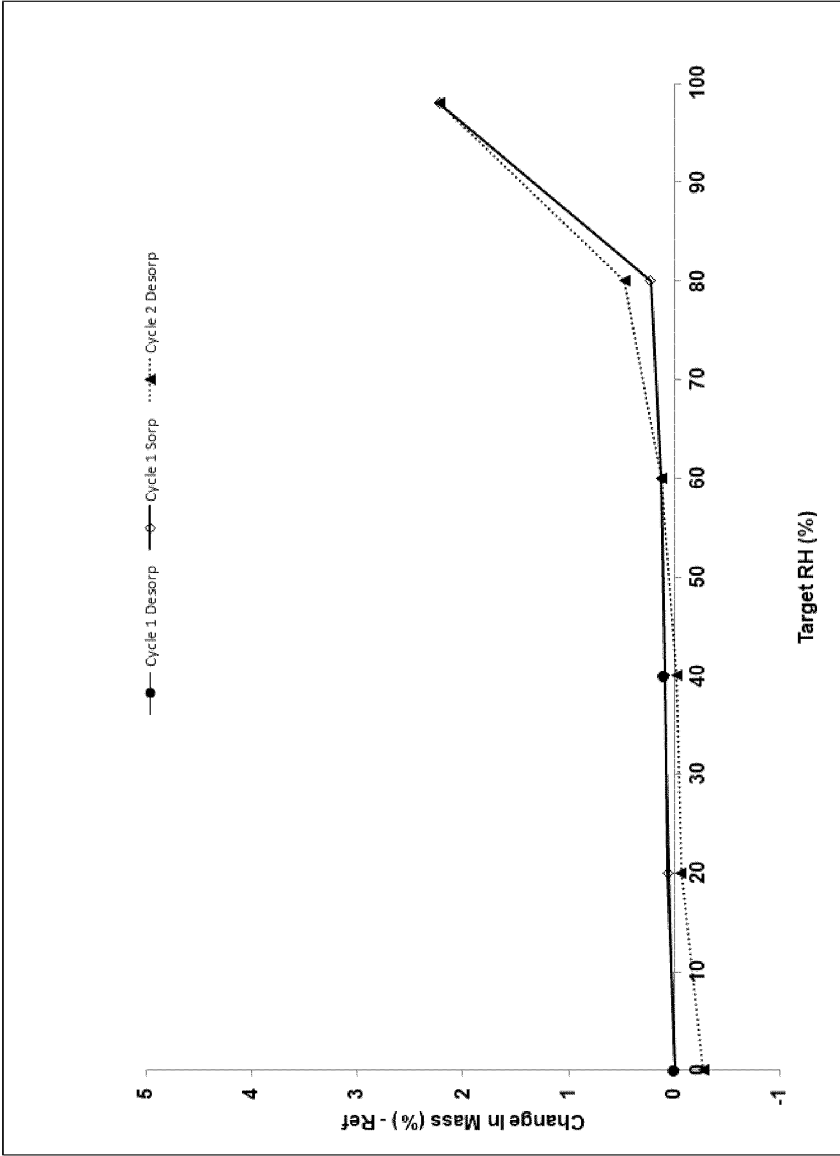


Fig. 26 - Water Vapour Sorption Isotherm (25°C) of the mono 3-hydroxybenzoic co-crystal form NF1



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Fig. 27 – Powder X-ray diffractogram of the mono 3-hydroxybenzoic co-crystal form NF2

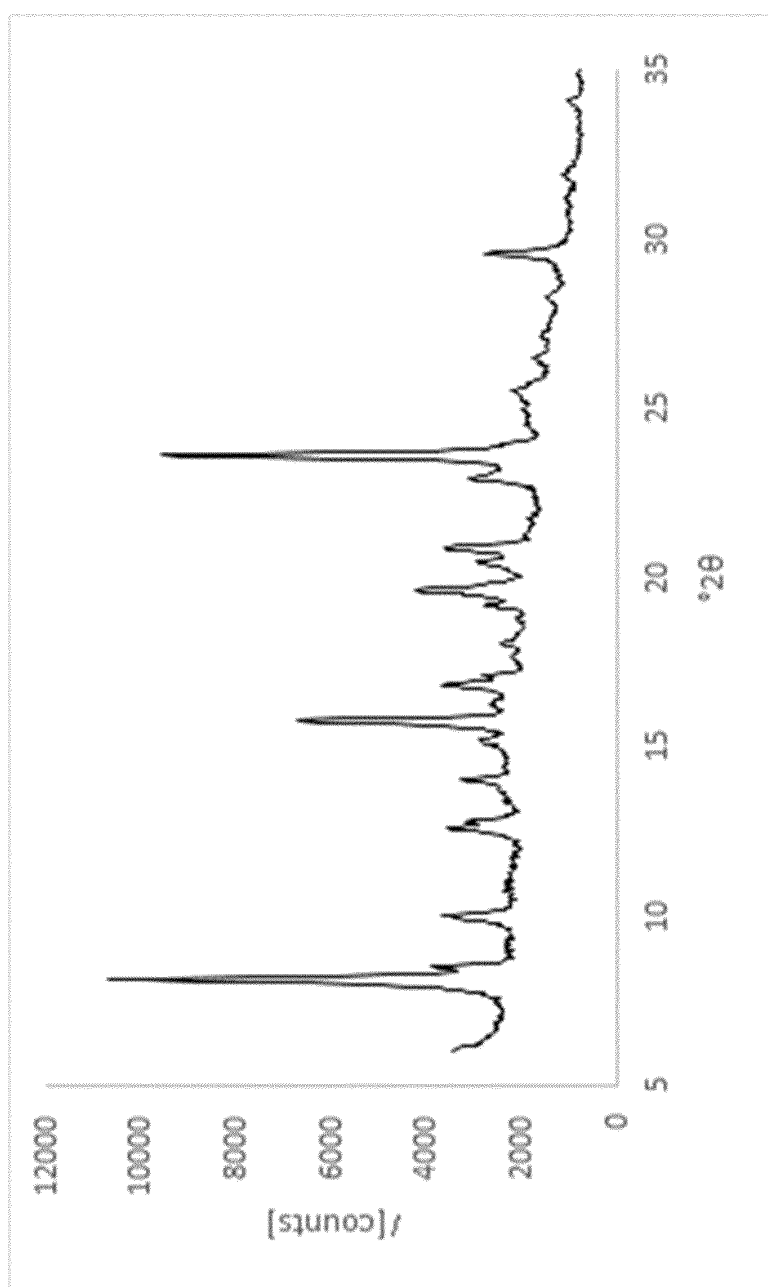


Fig. 28 - Powder X-ray diffractogram of the mono 3,4-dihydroxybenzoic acid co-crystal form NF1

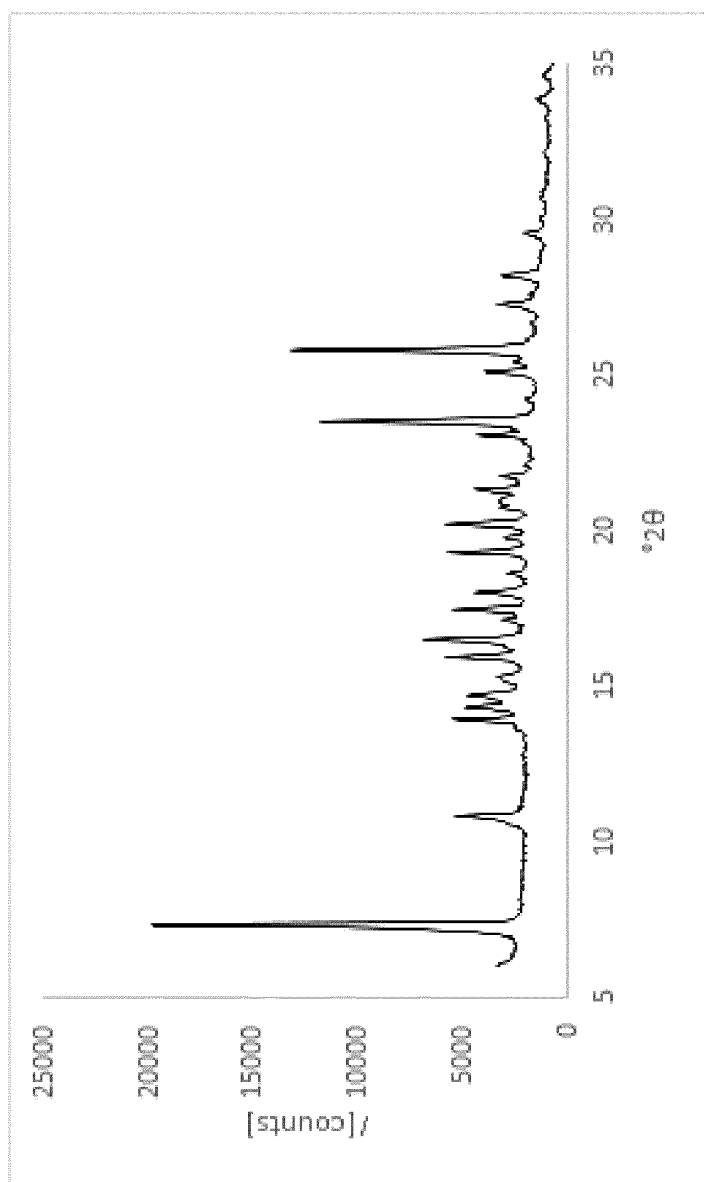
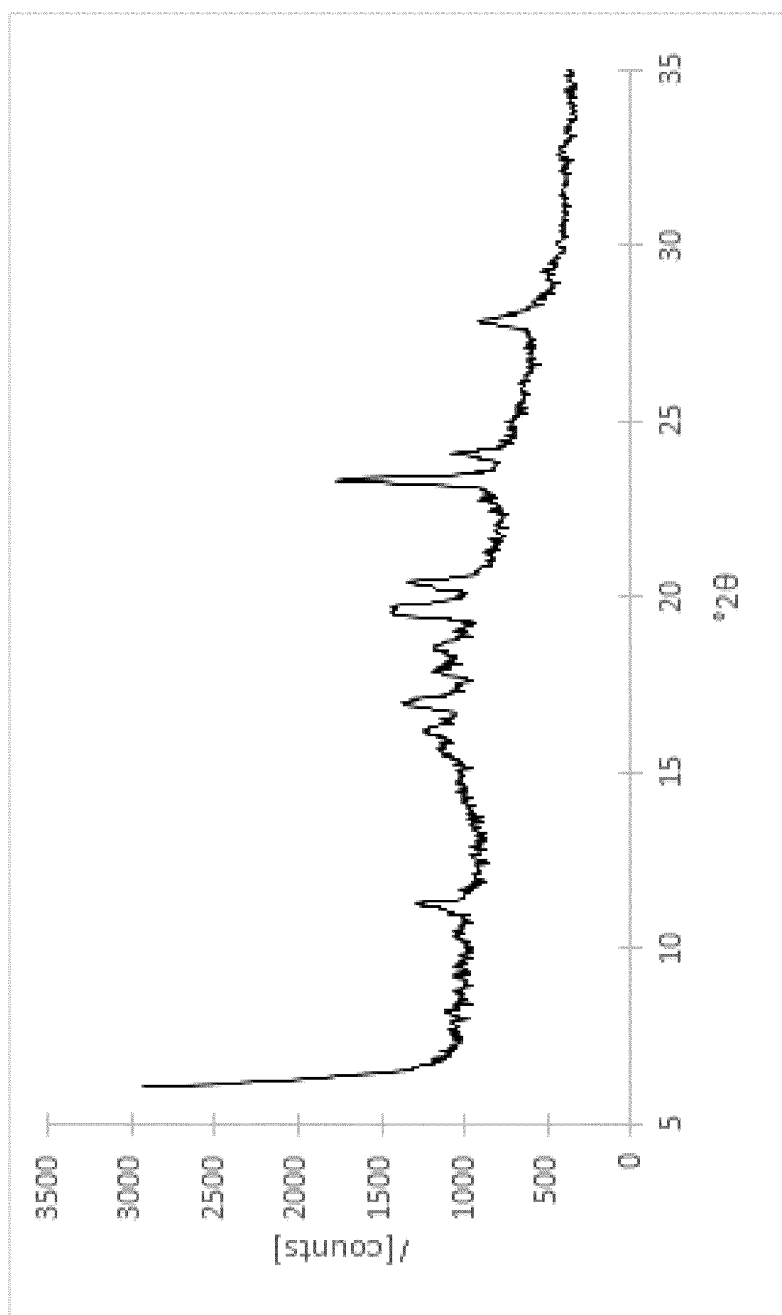


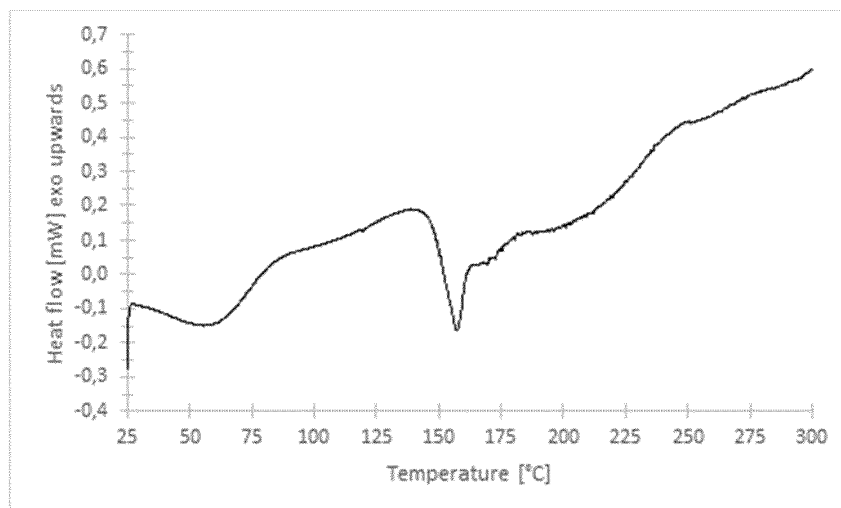
Fig. 29 - Powder X-ray diffractogram of the hemi tartaric acid co-crystal form NF1



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Fig. 30 – (30A) DSC scan of the hemi tartaric acid co-crystal form NF1 (5 K/min), (30B) TGA scan of the hemi tartaric acid co-crystal form NF1 (5 K/min)

A



B

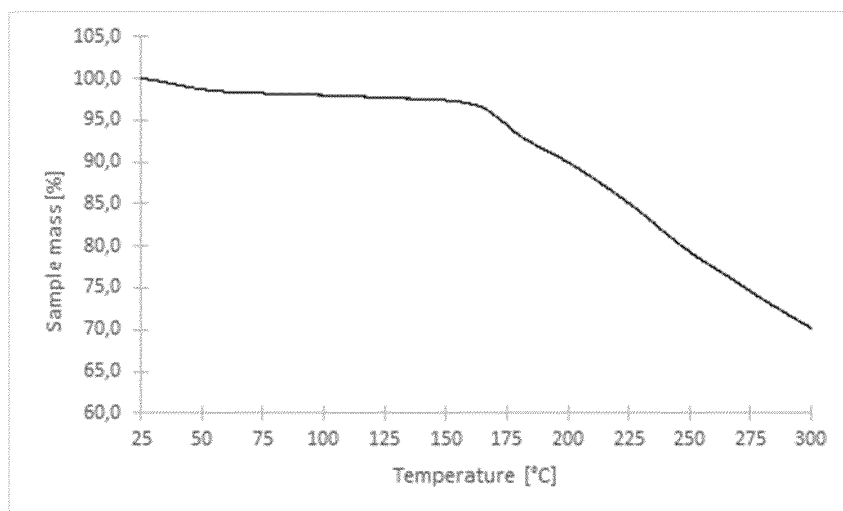
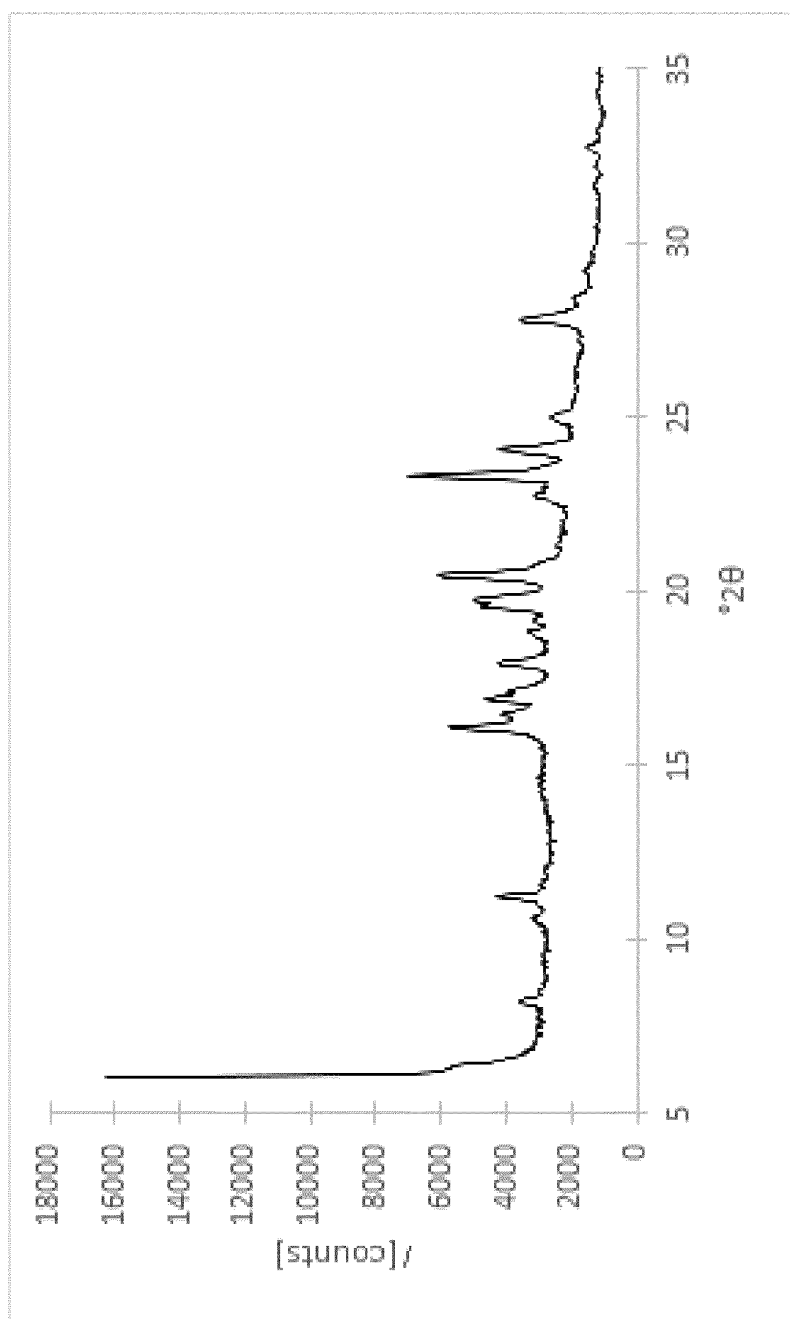
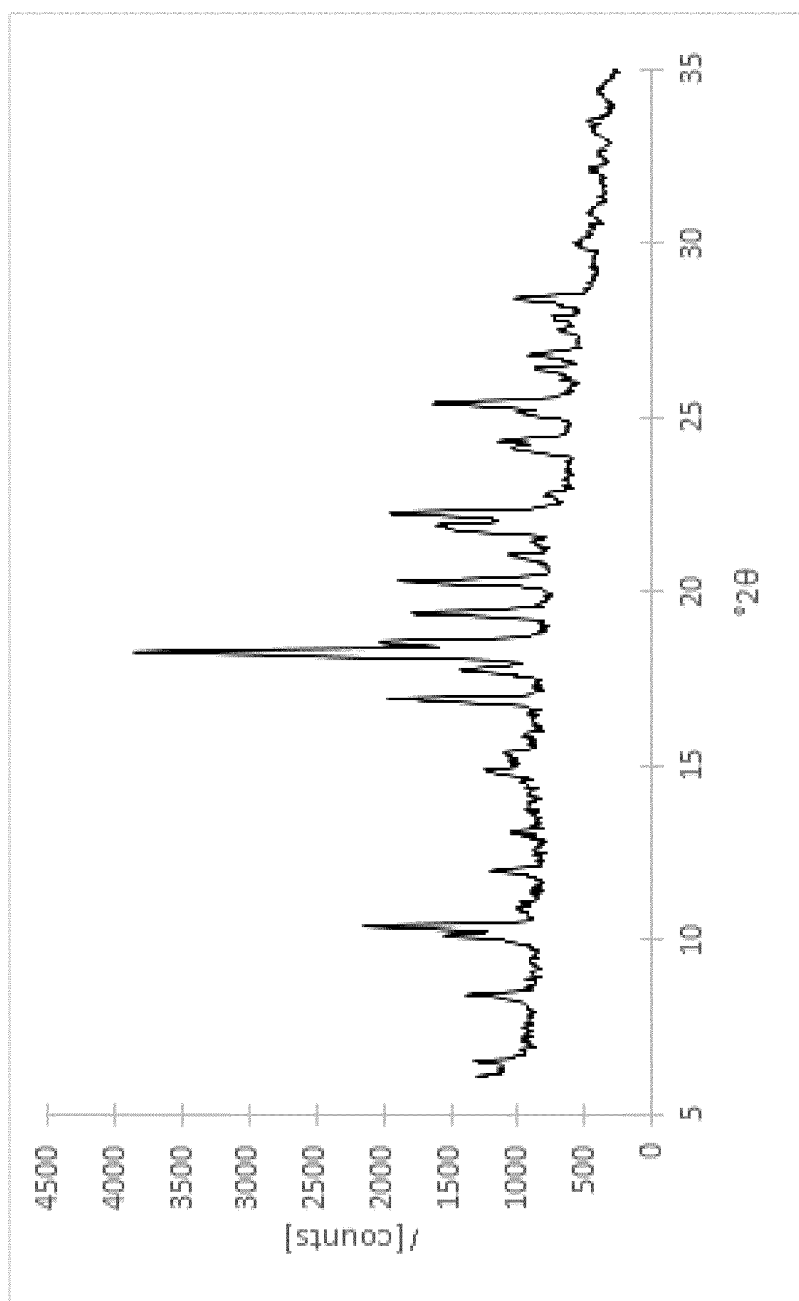


Fig. 31 - Powder X-ray diffractogram of the hemi tartaric acid co-crystal form NF2



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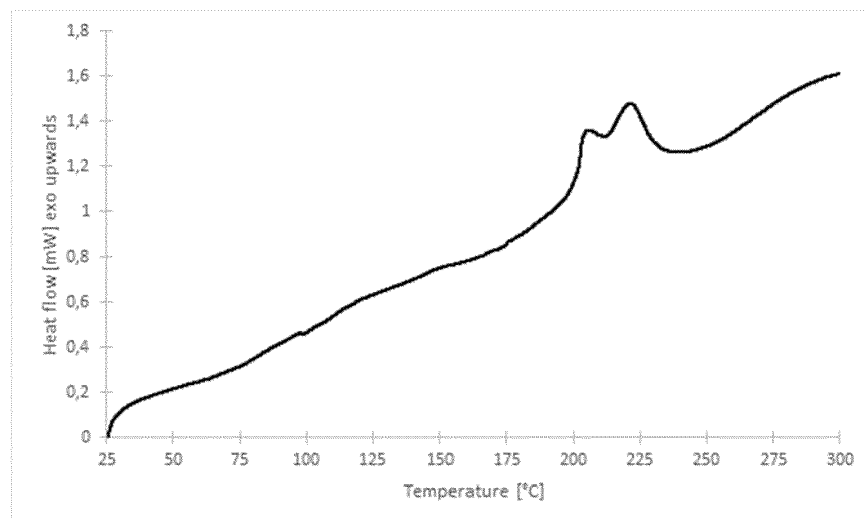
Fig. 32 - Powder X-ray diffractogram of the 1,5-naphthalenedisulfonic acid co-crystal form NF1



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Fig. 33 – (33A) DSC scan of the 1,5-naphthalenedisulfonic acid co-crystal form NF1, (33B) TGA scan of the 1,5-naphthalenedisulfonic acid co-crystal form NF1 (5 K/min)

A



B

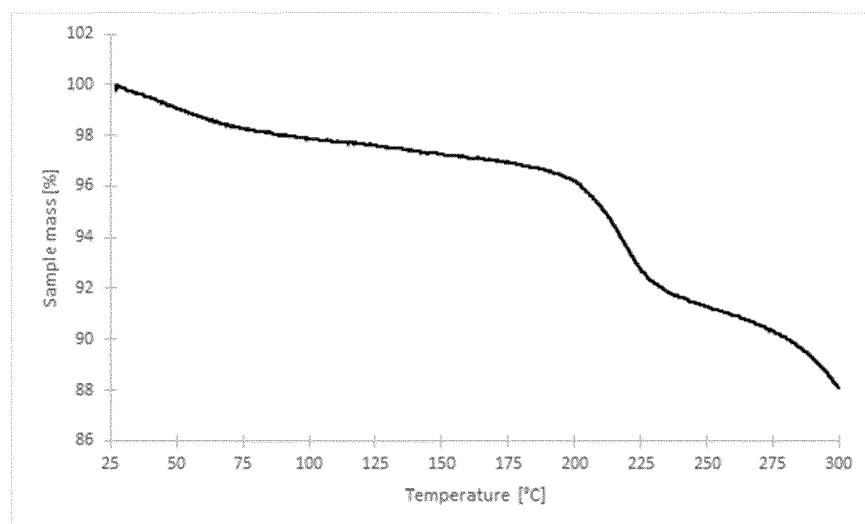


Fig. 34 – Powder X-ray diffractogram of the mono D-malic acid co-crystal form NF1

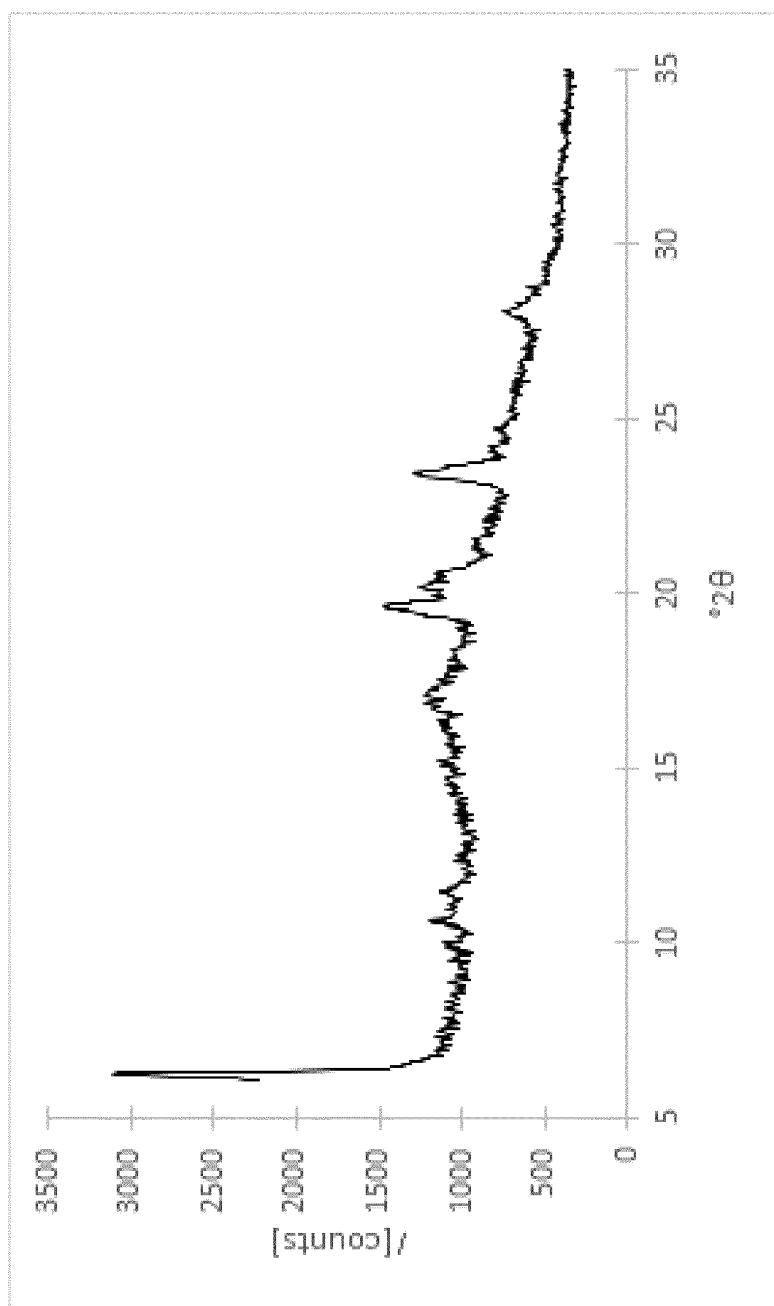
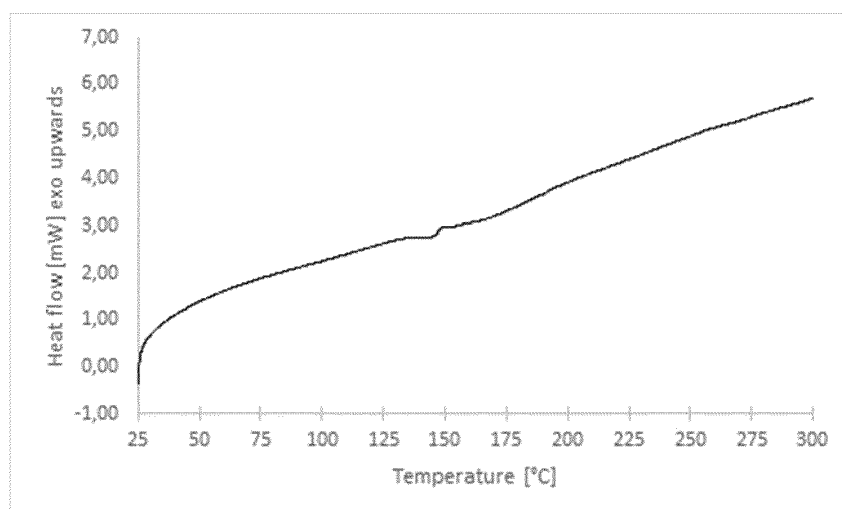


Fig. 35 – (35A) DSC scan of the mono _D-malic acid co-crystal form NF1,
(35B) TGA scan of mono _D-malic acid co-crystal form NF1

A



B

