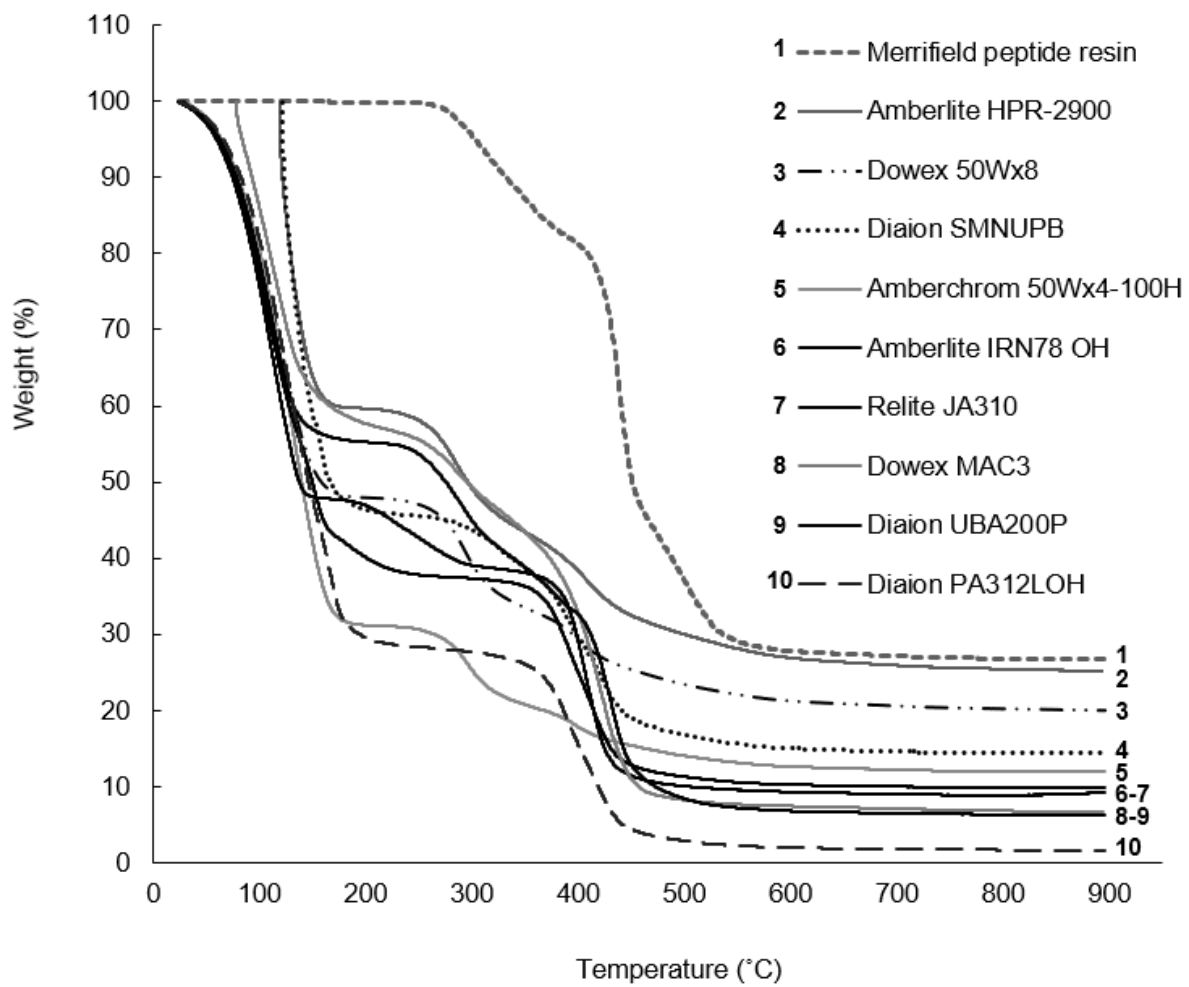


**Fig. 1**



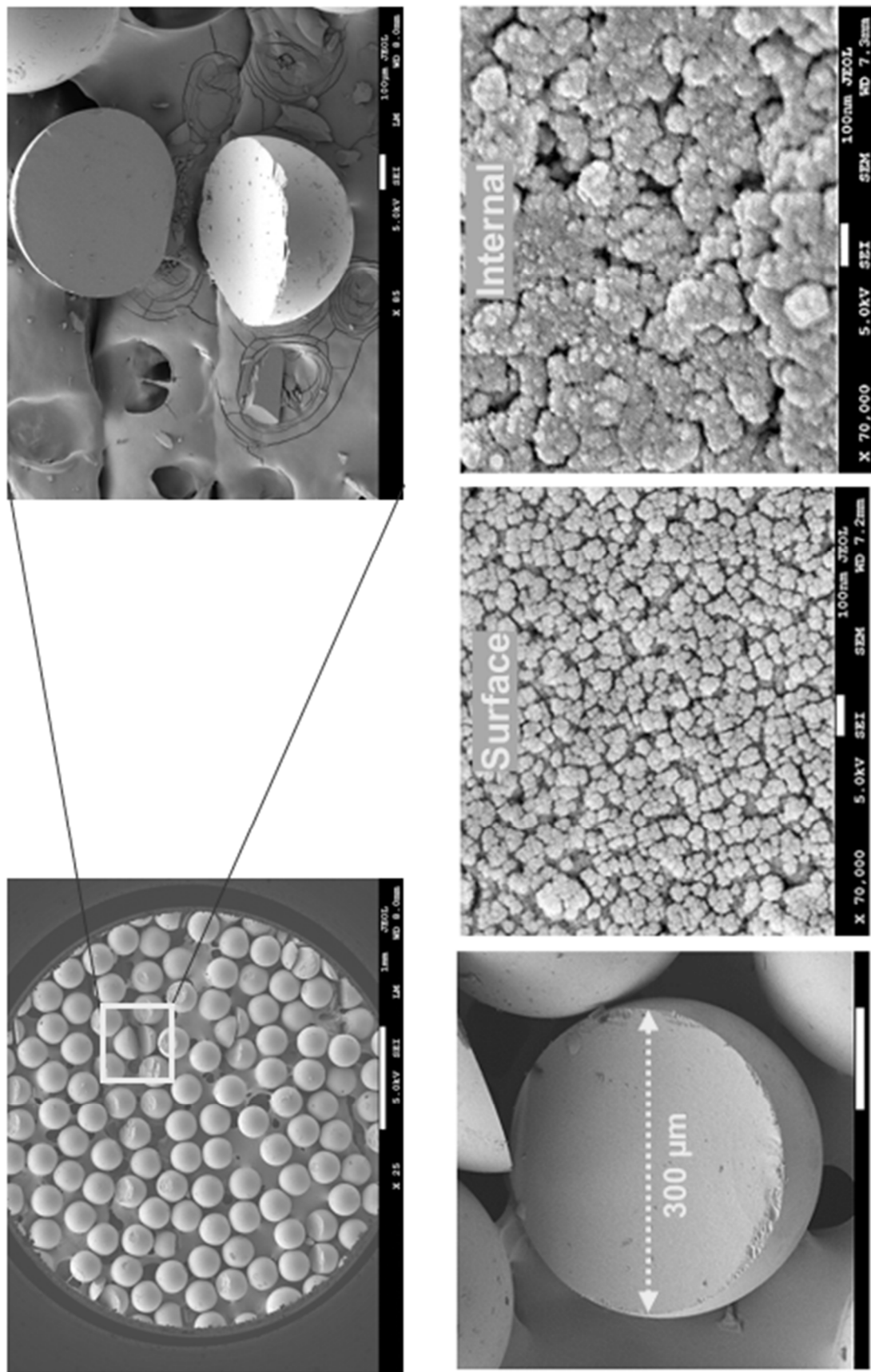
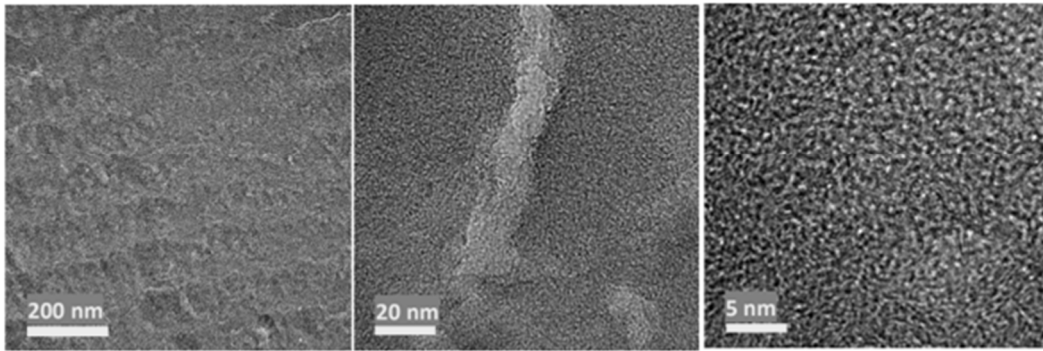
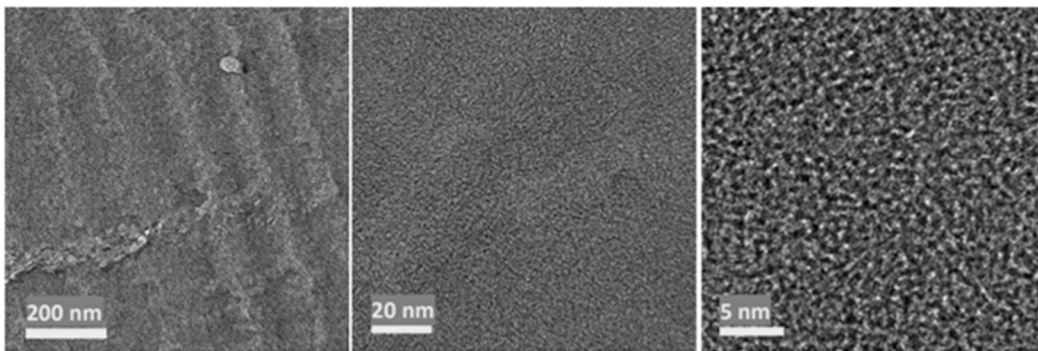
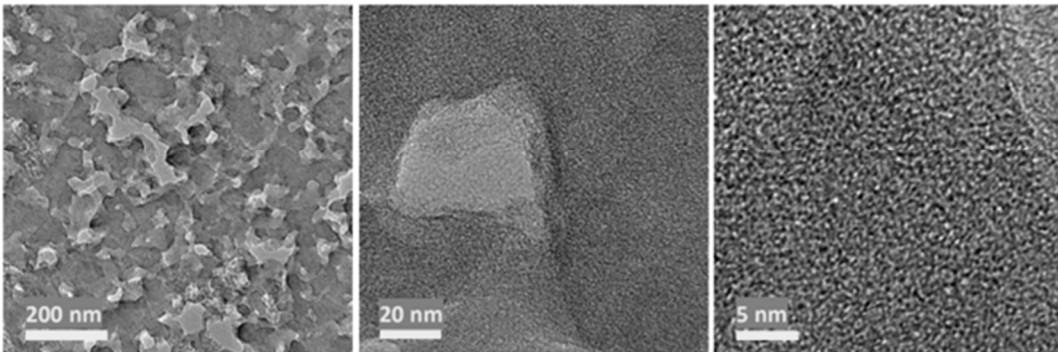
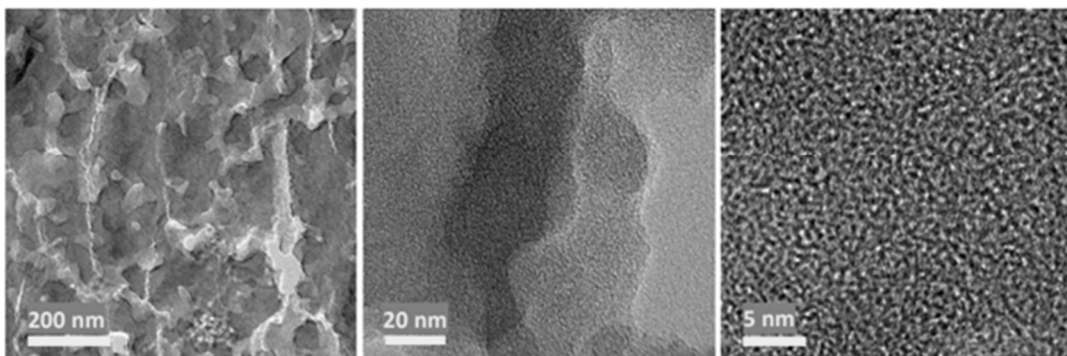
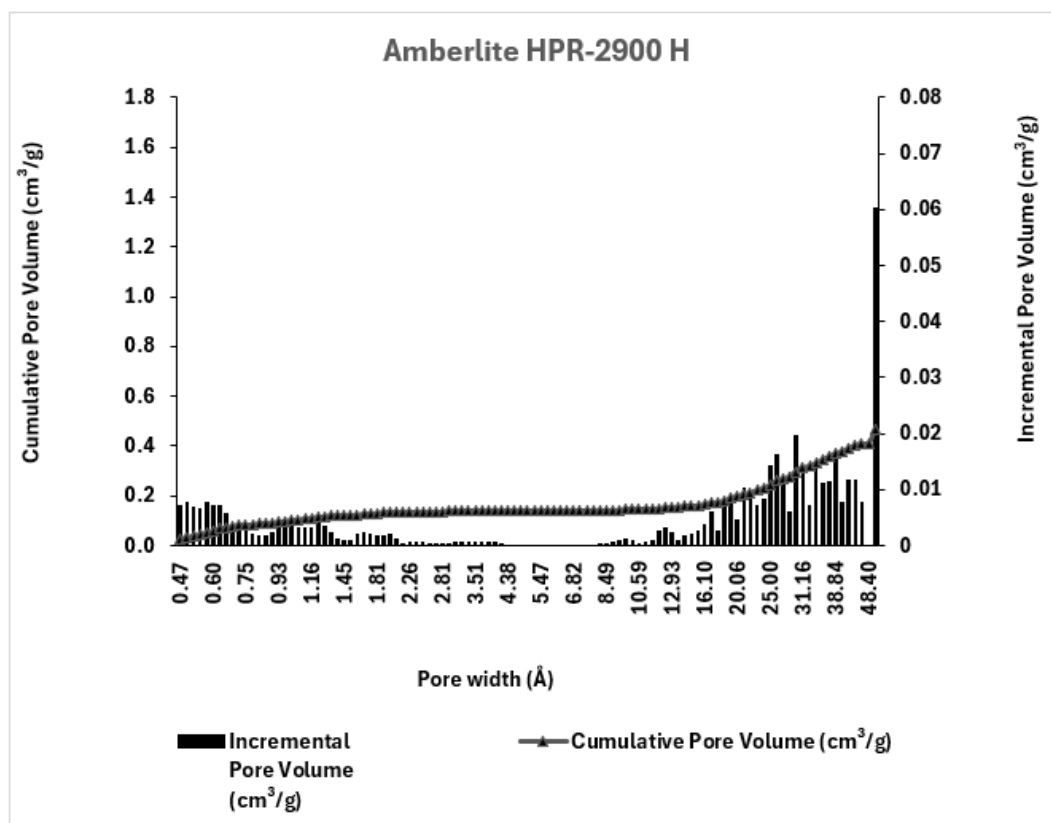
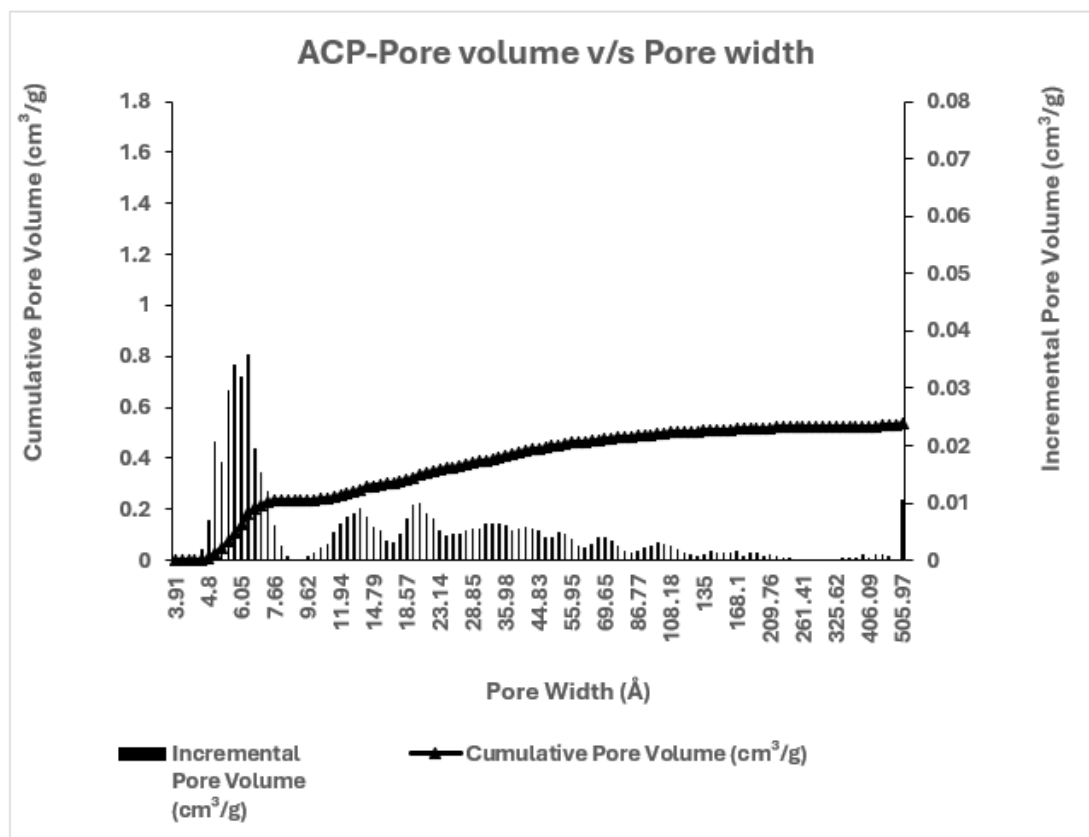
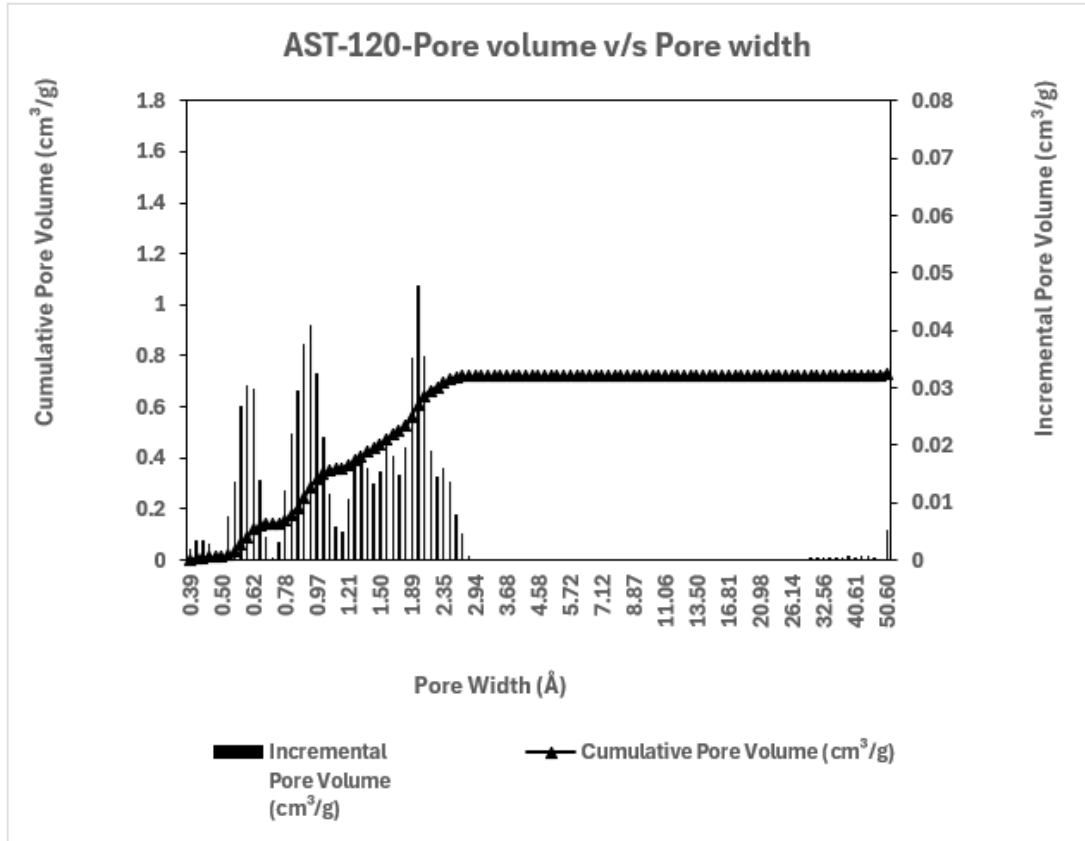


Fig. 3

**(A)****(B)****(C)****(D)****Fig. 4**

**(A)****(B)****Fig. 5**

(C)



(D)

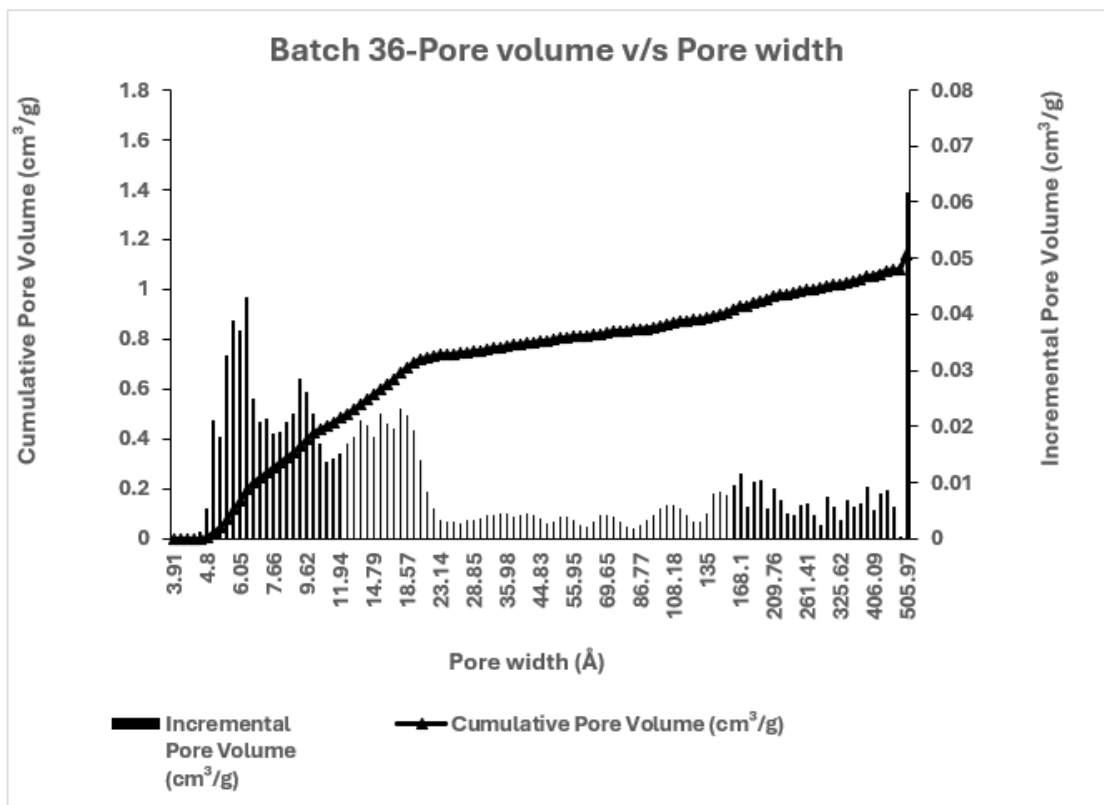


Fig. 5 (Cont.)

(E)

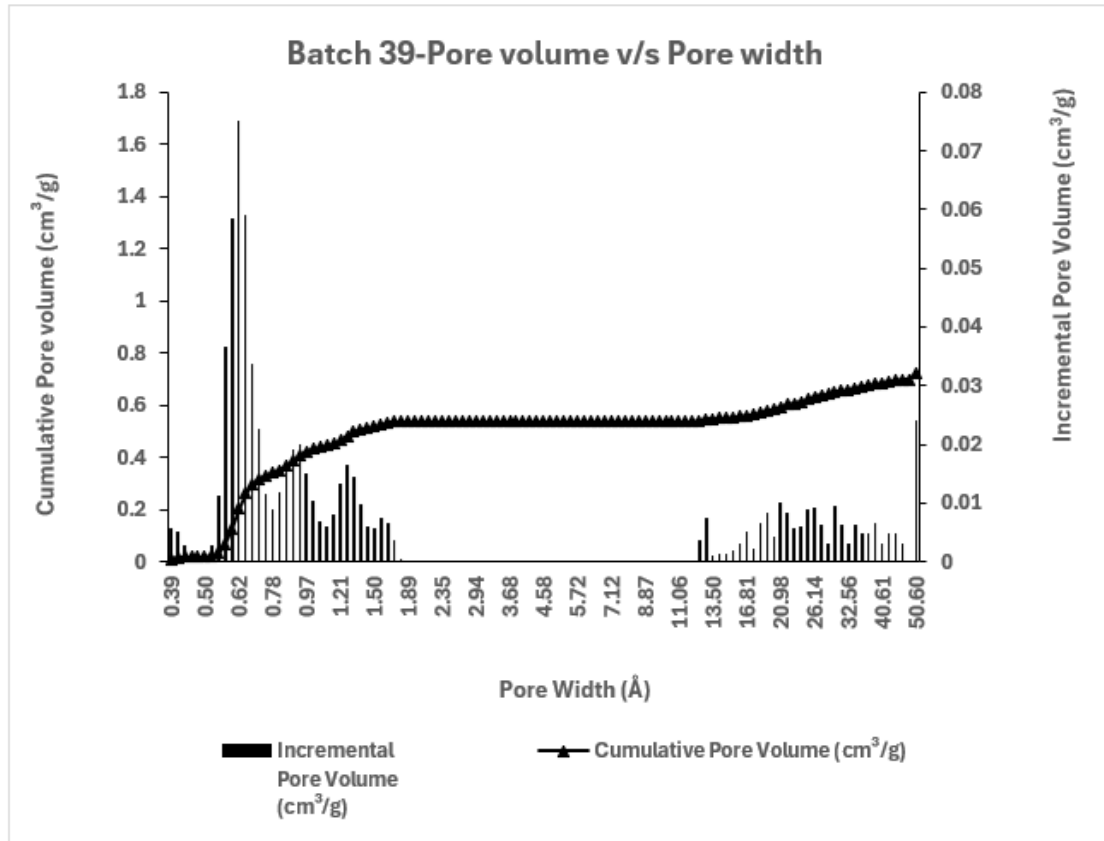


Fig. 5 (Cont.)

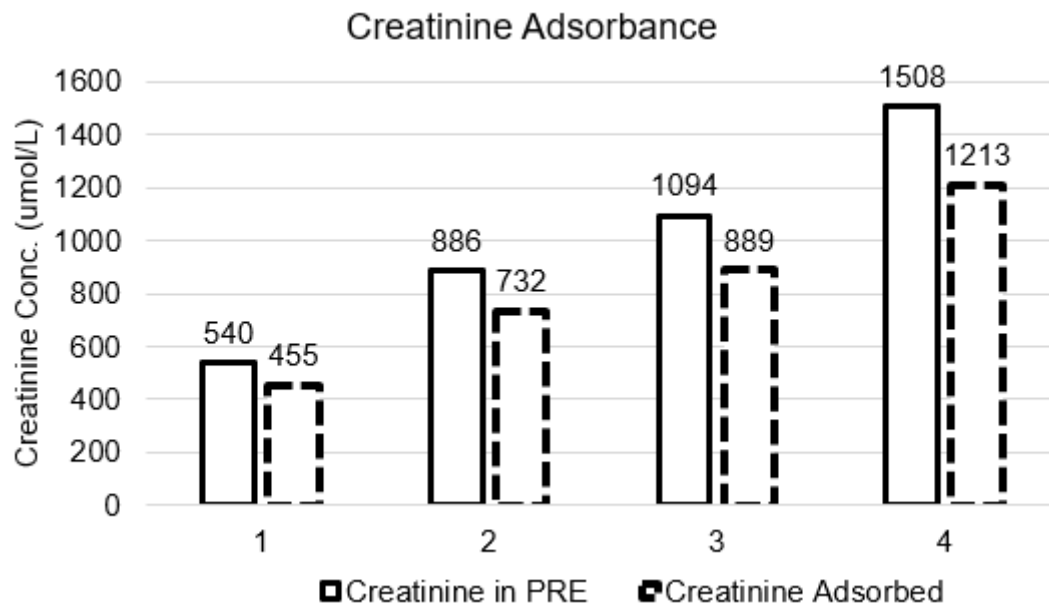


Fig. 6

(A)

| Sample Volume (mL) | PRE_SD (mmol)<br>(500 mg) | Crea adsorbed after 6 h |
|--------------------|---------------------------|-------------------------|
| 50                 | 87.4                      | 123.6 mg                |
| 75                 | 56.5                      | 126.5 mg                |
| 100                | 41.6                      | 108.2 mg                |
| 150                | 30.2                      | 114.2 mg                |
| 200                | 21.4                      | 70.1 mg                 |
| 300                | 14.2                      | 84.5 mg                 |

(B)

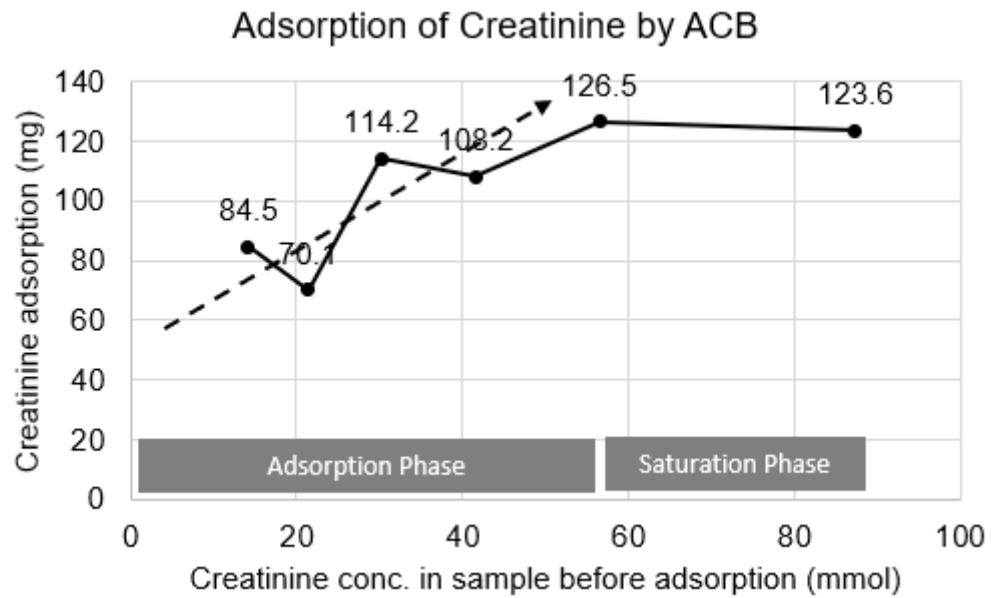


Fig. 7

(A)

| Sample Volume (mL) | PRE_SD (mmol) (500 mg) | Creatinine adsorbed after 2 h (mg) | Creatinine adsorbed after 6 h (mg) | Creatinine adsorbed after 24 h (mg) |
|--------------------|------------------------|------------------------------------|------------------------------------|-------------------------------------|
| 50                 | A (87.4 mmol)          | 84.7 mg                            | 123.6 mg                           | 136.2 mg                            |
| 75                 | B (56.5 mmol)          | 81.4 mg                            | 126.5 mg                           | 110.6 mg                            |
| 100                | C (41.6 mmol)          | 58.9 mg                            | 108.2 mg                           | 113.0 mg                            |
| 150                | D (30.2 mmol)          | 67.9 mg                            | 114.2 mg                           | 96.0 mg                             |
| 200                | E (21.4 mmol)          | 60.7 mg                            | 70.1 mg                            | 93.5 mg                             |
| 250                | F (17.6 mmol)          | 51.1 mg                            | 105.1 mg                           | 113.6 mg                            |
| 300                | G (14.2 mmol)          | 31.7 mg                            | 84.5 mg                            | 95.1 mg                             |

(B)

Effect of Duration on Creatinine Adsorption

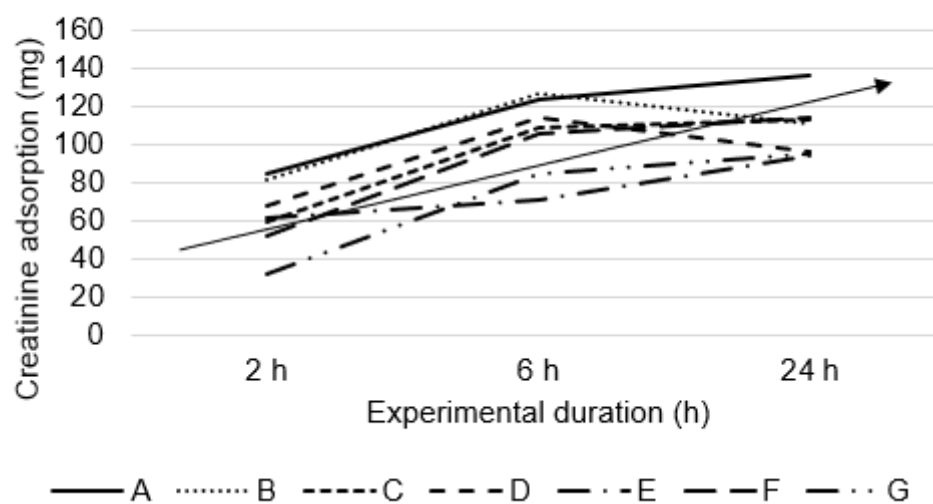


Fig. 8

(C)

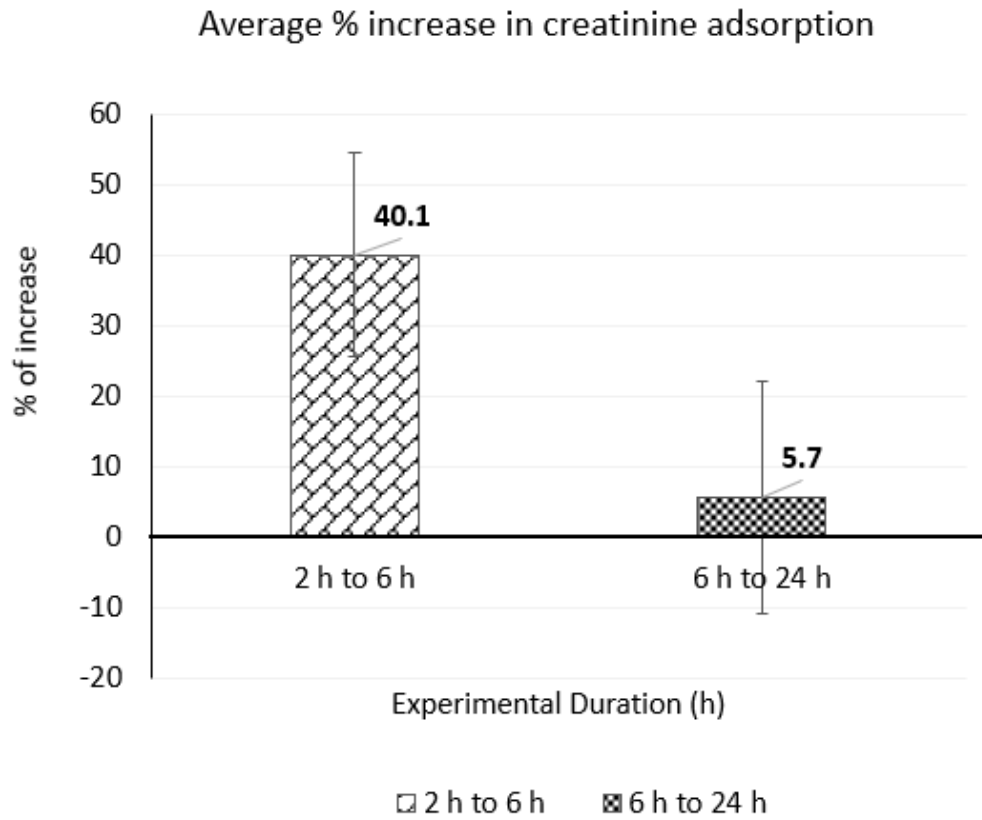


Fig. 8 (Cont.)

(A)

| Sample Volume (mL) | PRE_SD (mmol) (500 mg) | Crea adsorbed after 1 h (mg) | Crea adsorbed after 3 h (mg) | Crea adsorbed after 6 h (mg) |
|--------------------|------------------------|------------------------------|------------------------------|------------------------------|
| 50 (pH = 1)        | 80.4                   | 49.8                         | 37.3                         | 20.5                         |
| 50 (pH = 3)        | 81.4                   | 59.6                         | 55.3                         | 80.5                         |
| 50 (pH = 5)        | 79.9                   | 70.5                         | 75.1                         | 72.6                         |

Fig. 9

Effect of pH on creatinine removal

(B)

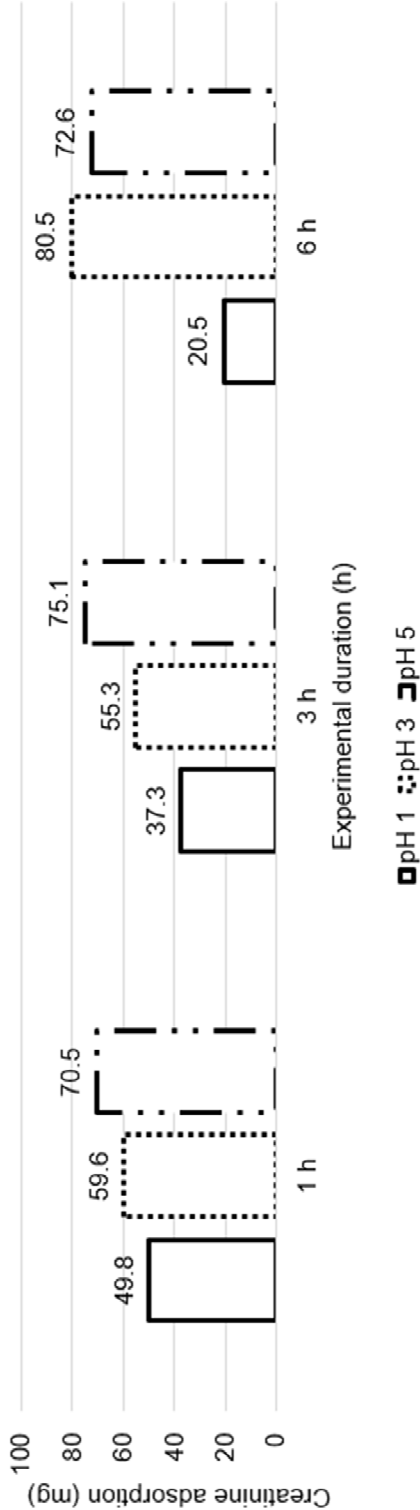
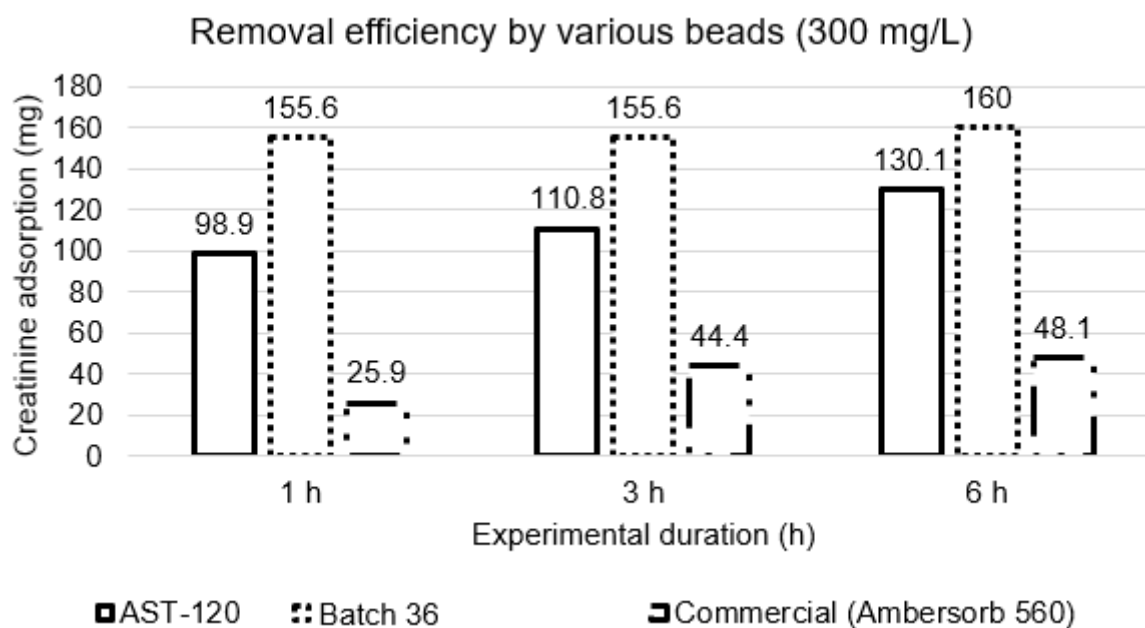
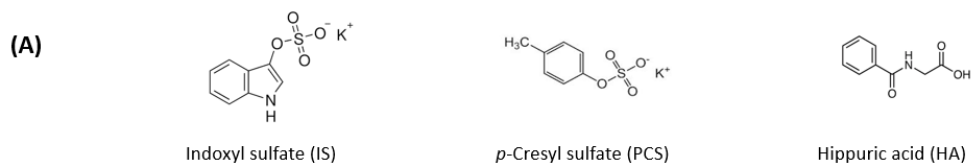


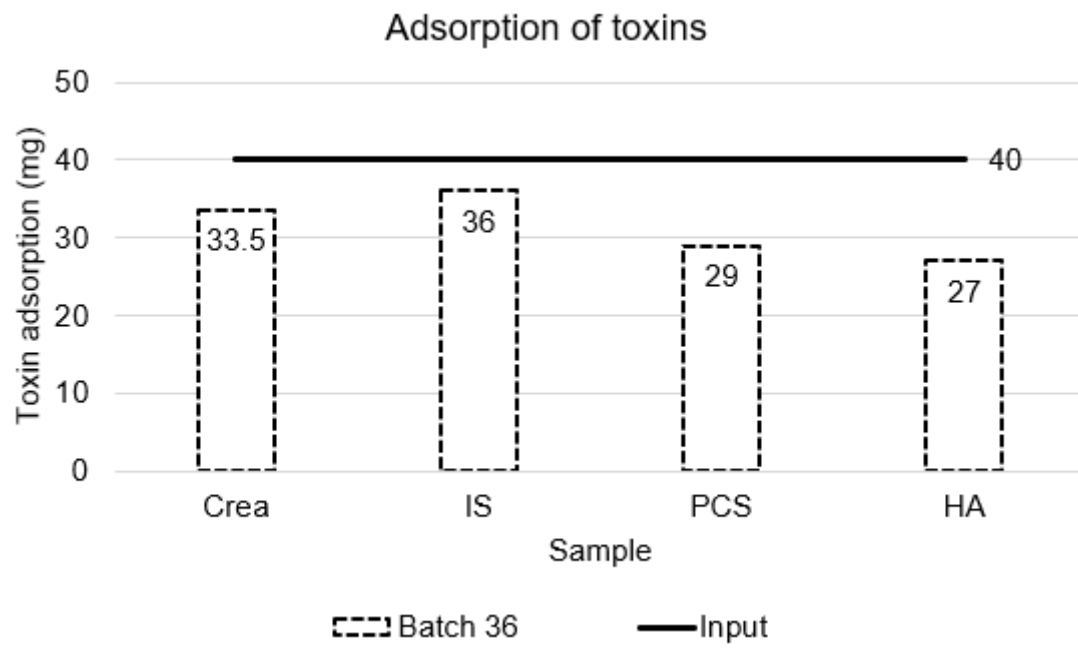
Fig. 9 (Cont.)

**Fig. 10**

(B)

| S.No. | Sample ID                  | Adsorption of IS (mg/L) | Adsorption of HA (mg/L) | Adsorption of PCS (mg/L) | Stock solution |
|-------|----------------------------|-------------------------|-------------------------|--------------------------|----------------|
| 1     | Expt with 200 mg of beads  | 410                     | 909                     | 613                      | 1000 mg/1L     |
| 2     | Expt with 400 mg of beads  | 450                     | 990                     | 767                      |                |
| 3     | Expt with 600 mg of beads  | 700                     | 998                     | 773                      |                |
| 4     | Expt with 1000 mg of beads | >999.9                  | >999.9                  | 872                      |                |
| 5     | Expt at pH 1               | >999.9                  | >999.9                  | >999.9                   |                |
| 6     | Expt at pH 3               | >999.9                  | >999.9                  | 924                      |                |
| 7     | Expt at pH 5               | 970                     | >999.9                  | 896                      |                |
| 8     | Expt at pH 7               | 947                     | >999.9                  | 866                      |                |

**Fig. 11**

**Fig. 12**

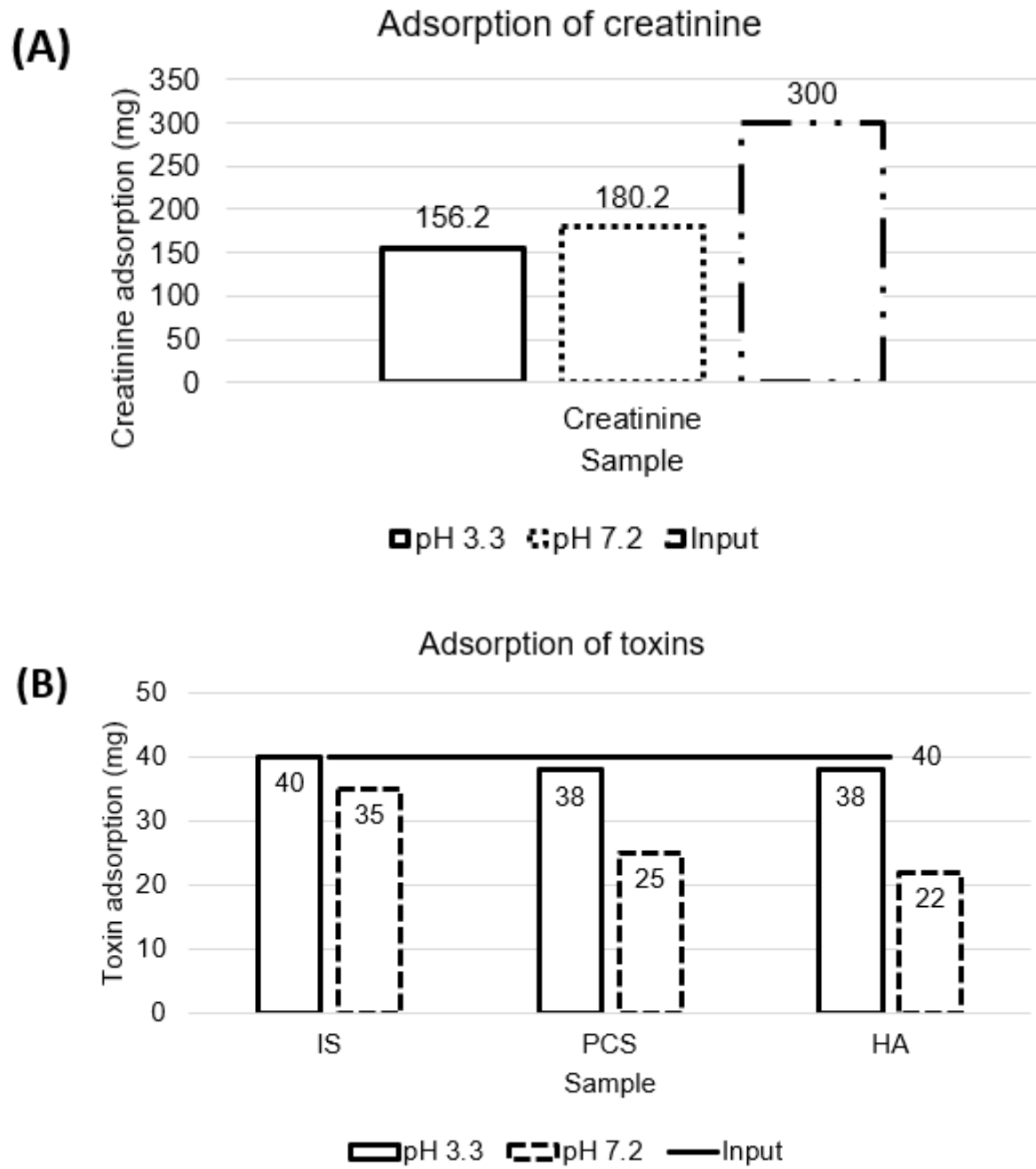


Fig. 13

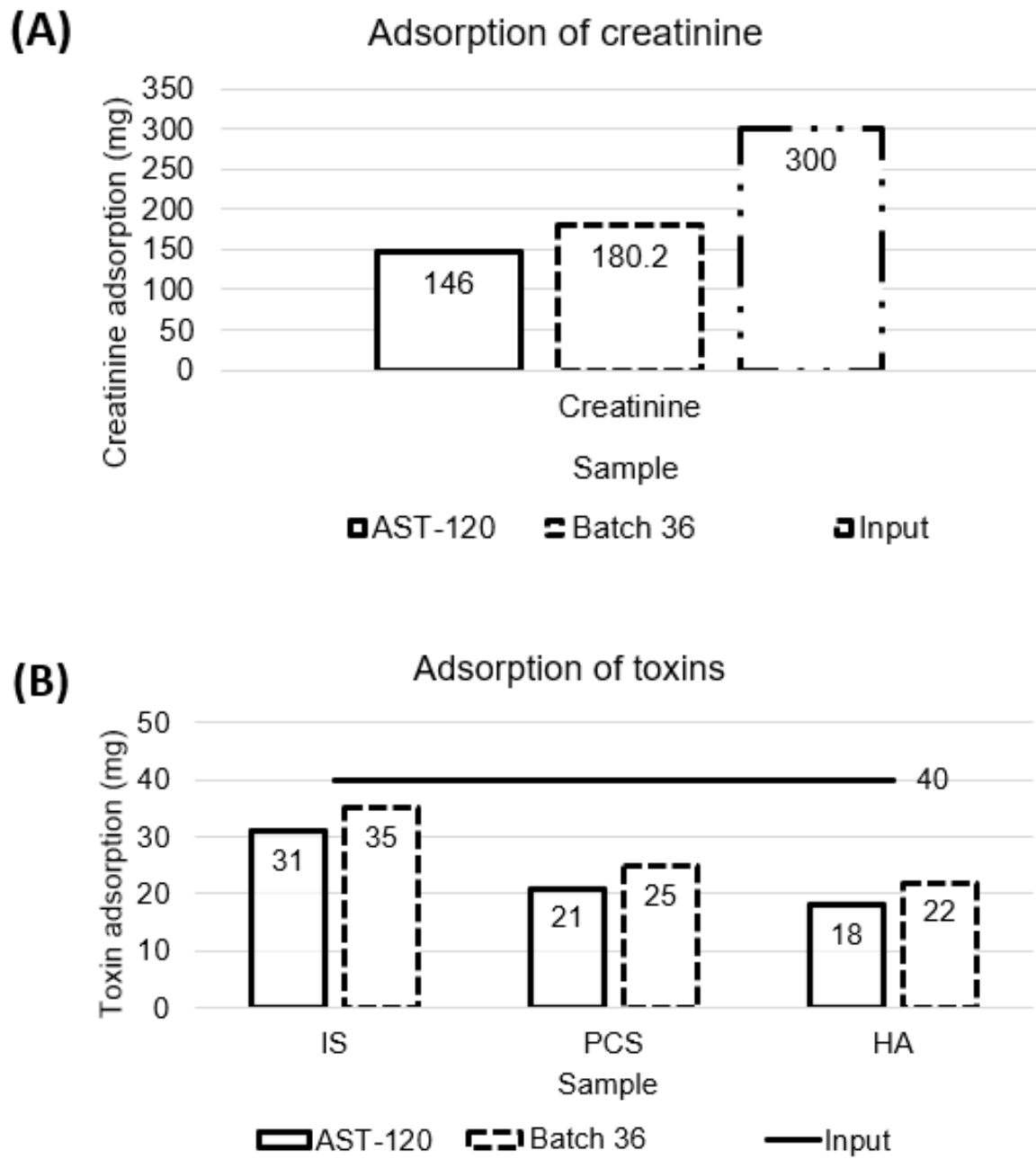


Fig. 14

**Fig. 15**