

## Supplementary material

**Supplementary Table 1.** Two-ways ANOVA table for GA<sub>3</sub> concentration (p<0.05) of the anaerobic digestion treatments.

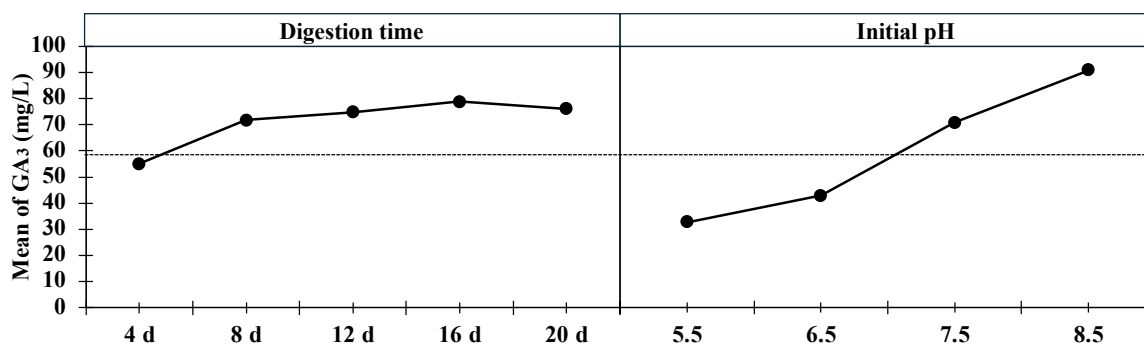
| Source of variation | Degrees of freedom | Sum of squares | Mean squares | F-value | p-value                    |
|---------------------|--------------------|----------------|--------------|---------|----------------------------|
| Digestion time      | 5                  | 53609          | 10722        | 144     | <2x10 <sup>-16</sup> ***   |
| pH                  | 3                  | 36837          | 12279        | 164.9   | <2x10 <sup>-16</sup> ***   |
| Digestion time *pH  | 15                 | 14295          | 953          | 12.8    | 7.32x10 <sup>-12</sup> *** |
| Residuals           | 47                 | 3500           | 74           |         |                            |

Significance codes: 0 (\*\*\*), 0.001 (\*\*), 0.01 (\*).

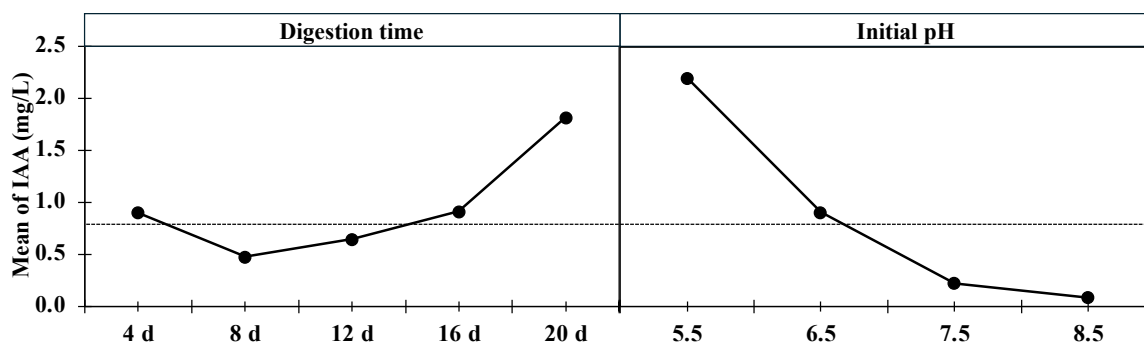
**Supplementary Table 2.** Two-ways ANOVA table for IAA concentration (p<0.05) of the anaerobic digestion treatments.

| Source of variation | Degrees of freedom | Sum of squares | Mean squares | F-value | p-value                    |
|---------------------|--------------------|----------------|--------------|---------|----------------------------|
| Digestion time      | 5                  | 8.86           | 1.771        | 4.552   | 0.00182 **                 |
| pH                  | 3                  | 41.89          | 13.963       | 35.877  | 3.28x10 <sup>-12</sup> *** |
| Digestion time *pH  | 15                 | 64.88          | 4.326        | 11.114  | 8.45x10 <sup>-11</sup> *** |
| Residuals           | 47                 | 18.29          | 0.389        |         |                            |

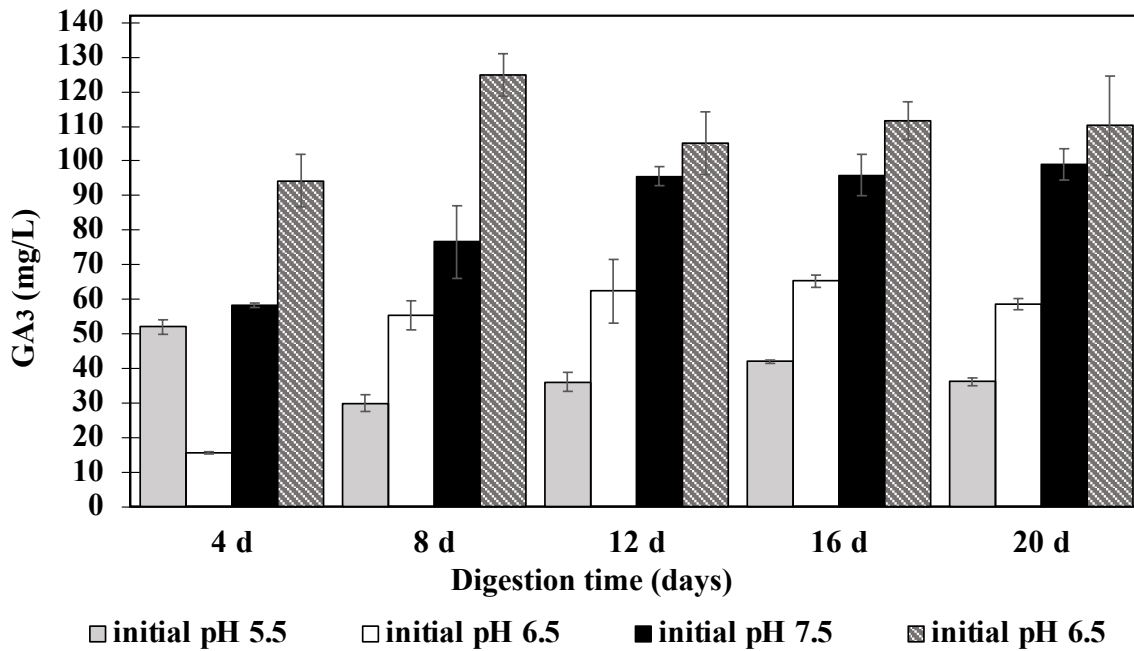
Significance codes: 0 (\*\*\*), 0.001 (\*\*), 0.01 (\*).



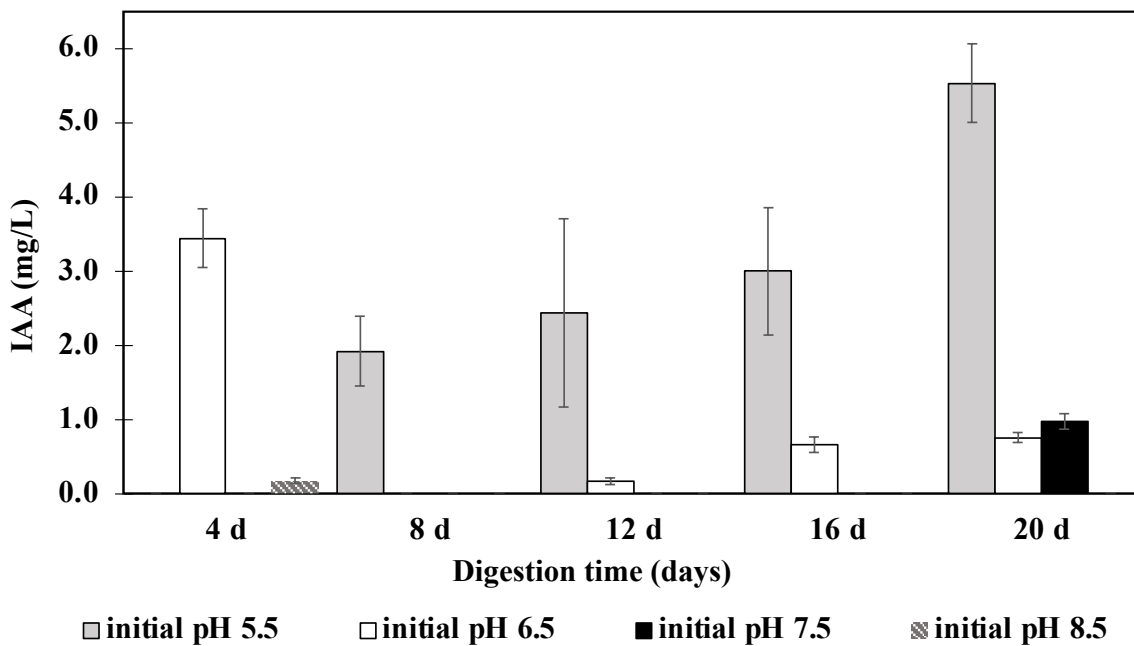
**Supplementary Fig. 1.** Main effect plot for GA<sub>3</sub> concentration (mg/L).



**Supplementary Fig. 2.** Main effect plot for IAA concentration (mg/L).



**Supplementary Fig. 3.** GA<sub>3</sub> (mg/L) concentration measured in the anaerobic digestion treatments at 0, 4, 8, 12, 16, and 20 days, and initial pH 5.5, 6.5, 7.5, and 8.5.



**Supplementary Fig. 4.** IAA (mg/L) concentration measured in the anaerobic digestion treatments at 0, 4, 8, 12, 16, and 20 days, and initial pH 5.5, 6.5, 7.5, and 8.5.