

Clove Essential Oil Emulsions Loaded Arrowroot Starch-Beeswax Based Edible Coating Extends the Shelf Life and Preserves the Postharvest Quality of Fresh Tomatoes (*Solanum lycopersicum* L.) Stored at Room Temperature

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Table S1 Effect of edible coatings on the luminosity (L^*) of tomatoes during storage ^a

| Formulation n | Luminosity (L^*) | | | | | | | | | | | | |
|------------------|--------------------------------|----------------------------------|-------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------------|----------------------------------|-------------------------------------|--------------------------------|---------------------------------|
| | Number of Storage Days | | | | | | | | | | | | |
| | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| Control | 47.37±2.15 ^{aA} | 43.77±1.97 ^{cAB} | 38.70±3.05 ^{bb} | 38.37±1.95 ^{cB} | 39.73±3.76 ^{bB} | 38.40±6.24 ^{aB} | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. |
| 1 | 49.27±0.12 ^{aA} | 48.70±4.87 ^{abA} | 48.83±3.07 ^{aA} | 47.83±5.95 ^{abA} B | 44.70±3.08 ^{abABC} | 45.47±3.62 ^{aABC} | 44.70±2.57 ^{aABC} | 45.90±3.12 ^{aABC} | 47.00±5.27 ^{aAB} C | 45.73±1.00 ^{aABC} | 43.13±1.72 ^{deABC} | 42.00±1.47 ^{dBC} | 40.70±1.05 ^{cC} |
| 2 | 48.33±1.38 ^{aAB} | 50.27±1.01 ^{abA} | 50.27±2.50 ^{aA} | 44.60±2.00 ^{bBC} | 45.90±4.62 ^{aABC} | 46.17±2.48 ^{aABC} | 46.77±4.11 ^{aABC} | 45.80±4.37 ^{aABC} | 43.97±2.84 ^{aBC} | 43.00±2.78 ^{aBC} | 44.53±2.20 ^{cdeBC} | 41.87±1.17 ^{dC} | 45.60±2.65 ^{abABC} |
| 3 | 49.60±1.71 ^{aAB} C | 52.07±2.35 ^{aA} | 51.97±2.01 ^{aA} | 50.50±3.22 ^{abA} B | 48.67±5.20 ^{aABC} | 48.23±5.86 ^{aABC} | 47.20±3.01 ^{aABC} | 47.90±3.03 ^{aABC} | 48.50±2.26 ^{aAB} C | 46.00±3.40 ^{aABC} | 45.43±1.76 ^{bcdBC} | 49.40±2.00 ^{aAB} C | 44.13±0.67 ^{bC} |
| 4 | 49.23±1.17 ^{aAB} C | 48.97±0.40 ^{abABC} D | 49.93±1.12 ^{aA} B | 50.30±1.91 ^{abA} | 47.03±0.58 ^{aCDEF} | 47.23±1.50 ^{aBCD} E | 46.33±1.70 ^{aDEF} G | 46.47±2.64 ^{aCDEF} G | 45.60±1.39 ^{aEFG} | 47.73±1.77 ^{aABCD} E | 46.50±0.98 ^{abcdCDEF} G | 44.27±1.45 ^{edFG} | 43.90±1.10 ^{bG} |
| 5 | 48.43±1.74 ^{aAB} | 50.63±0.76 ^{abA} | 48.70±3.84 ^{aA} B | 51.70±2.10 ^{aA} | 44.97±0.93 ^{abBC} | 43.30±1.57 ^{aC} | 45.53±0.50 ^{aBC} | 44.90±1.93 ^{aBC} | 44.17±4.74 ^{aC} | 43.23±1.06 ^{aC} | 48.43±0.65 ^{abAB} | 48.47±0.90 ^{abAB} | 45.47±1.72 ^{abBC} |
| 6 | 49.33±1.53 ^{aAB} C | 50.50±1.48 ^{abAB} | 50.43±0.90 ^{aA} B | 50.90±3.37 ^{aA} | 47.67±2.95 ^{aABC} D | 46.67±3.20 ^{aBCD} | 46.23±1.40 ^{aCD} | 47.17±0.50 ^{aABCD} | 45.57±2.86 ^{aCD} | 45.77±1.33 ^{aCD} | 49.53±1.44 ^{aABC} | 45.30±0.87 ^{cD} | 47.33±1.97 ^{aABC} D |
| 7 | 46.83±0.91 ^{aAB} | 51.17±1.55 ^{abA} | 50.03±2.66 ^{aA} B | 49.07±4.50 ^{abA} B | 49.57±2.41 ^{aAB} | 48.77±5.52 ^{aAB} | 47.50±3.47 ^{aAB} | 46.57±4.13 ^{aAB} | 46.53±3.55 ^{aAB} | 45.33±0.64 ^{aB} | 45.03±1.23 ^{cdeB} | 46.53±1.31 ^{bcAB} | 44.87±1.19 ^{abB} |
| 8 | 49.37±2.62 ^{aAB} C | 47.97±0.67 ^{bABC} | 52.37±1.48 ^{aA} | 51.60±2.21 ^{aAB} | 46.97±3.76 ^{aBC} | 46.33±3.76 ^{aCD} | 46.50±4.20 ^{aCD} | 45.20±2.03 ^{aCD} | 46.60±3.70 ^{aCD} | 44.80±1.66 ^{aCD} | 41.77±0.98 ^{eD} | 45.73±2.48 ^{bcCD} | 44.30±0.10 ^{bCD} |
| 9 | 49.10±0.75 ^{aAB} C | 51.20±0.87 ^{abAB} | 51.87±0.47 ^{aA} | 51.43±1.07 ^{aA} | 49.73±0.64 ^{aABC} | 49.47±1.79 ^{aABC} | 49.20±2.95 ^{aABC} | 48.63±2.40 ^{aABC} | 48.83±2.32 ^{aAB} C | 48.17±3.78 ^{aABC} | 47.37±3.46 ^{abcBC} | 46.97±1.45 ^{abcC} | 46.17±0.68 ^{abC} |

^a Values that do not bear the same lowercase letter(s) within a column and the same uppercase letter(s) within a row are significantly different ($p < 0.05$). 1 (10 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 2 (10 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 3 (10 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 4 (15 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 5 (15 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 6 (15 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 7 (20 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 8 (20 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 9 (20 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW); n.d., not determined.

Table S2 Effect of edible coatings on the red intensity (a^*) of tomatoes during storage ^a

| Formulation | Red intensity (a^*) | | | | | | | | | | | | |
|-------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|----------------------------|
| | Number of Storage Days | | | | | | | | | | | | |
| | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| Control | -5.00±1.40 ^{aC} | 19.33±0.57 ^{aB} | 23.57±0.71 ^{aAB} | 22.70±6.83 ^{aAB} | 24.57±2.66 ^{aAB} | 26.40±3.64 ^{aA} | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. |
| 1 | -3.70±1.59 ^{aD} | 6.27±6.10 ^{bC} | 11.87±1.91 ^{bBC} | 10.97±7.80 ^{bC} | 18.90±0.95 ^{aA} | 20.13±2.37 ^{abA} | 20.60±1.76 ^{aA} | 18.57±5.45 ^{aA} | 17.80±3.08 ^{aAB} | 20.00±1.44 ^{aA} | 20.87±1.22 ^{aA} | 23.13±1.16 ^{aA} | 20.07±4.22 ^{aA} |
| 2 | -6.23±1.20 ^{aF} | -2.43±4.15 ^{cEF} | 3.97±0.57 ^{cE} | 13.90±3.50 ^{bD} | 18.07±5.44 ^{aBCD} | 16.90±5.97 ^{bcCD} | 18.80±5.37 ^{aBCD} | 19.10±5.45 ^{aBCD} | 20.83±3.09 ^{aBCD} | 19.40±4.69 ^{aBCD} | 24.97±2.16 ^{aAB} | 26.77±1.15 ^{aA} | 21.90±1.51 ^{aABC} |
| 3 | -4.97±1.04 ^{aG} | -0.60±3.44 ^{cFG} | 1.07±2.69 ^{cFG} | 5.30±6.11 ^{bEF} | 11.07±4.04 ^{aDE} | 11.83±3.70 ^{cD} | 18.47±4.75 ^{aBCD} | 15.97±3.14 ^{aBCD} | 14.47±2.67 ^{aCD} | 23.30±2.15 ^{aA} | 21.20±4.83 ^{aAB} | 17.03±2.86 ^{aABCD} | 20.67±1.08 ^{aABC} |
| 4 | -5.23±0.84 ^{aF} | -4.07±2.46 ^{cF} | 2.73±1.69 ^{cE} | 9.43±2.23 ^{bD} | 16.27±4.88 ^{aBC} | 13.73±3.71 ^{bcCD} | 15.77±3.56 ^{aBC} | 18.97±6.62 ^{aABC} | 18.20±5.33 ^{aABC} | 17.47±1.70 ^{aABC} | 20.47±2.04 ^{aAB} | 23.00±0.61 ^{aA} | 21.33±1.25 ^{aAB} |
| 5 | -5.60±0.52 ^{aC} | -4.30±1.00 ^{cC} | 3.57±0.96 ^{cB} | 6.60±1.39 ^{bB} | 19.50±1.44 ^{aA} | 19.67±2.29 ^{abA} | 19.47±0.49 ^{aA} | 21.47±2.58 ^{aA} | 19.00±1.84 ^{aA} | 19.40±4.69 ^{aA} | 20.77±1.02 ^{aA} | 18.90±3.31 ^{aA} | 21.83±1.48 ^{aA} |
| 6 | -5.23±0.47 ^{aE} | -0.10±4.60 ^{cDE} | 3.53±5.09 ^{cDE} | 7.77±5.65 ^{bCD} | 16.00±2.21 ^{aBC} | 16.07±2.31 ^{bcBC} | 18.37±1.66 ^{aB} | 18.47±1.86 ^{aB} | 18.27±3.55 ^{aB} | 21.90±1.80 ^{aAB} | 18.97±2.31 ^{aB} | 31.27±17.13 ^{aA} | 19.80±1.44 ^{aB} |
| 7 | -5.87±2.05 ^{aE} | -5.60±1.65 ^{cE} | 5.27±3.44 ^{cD} | 8.13±6.42 ^{bD} | 11.37±11.94 ^{aCD} | 12.20±5.06 ^{cBCD} | 19.10±5.37 ^{aABC} | 19.77±6.13 ^{aABC} | 18.90±5.65 ^{aABC} | 23.40±1.78 ^{aA} | 21.57±1.82 ^{aAB} | 20.73±1.15 ^{aABC} | 22.30±1.31 ^{aA} |
| 8 | -5.80±0.60 ^{aD} | -3.37±3.44 ^{cCD} | 1.47±1.76 ^{cBC} | 6.43±5.35 ^{bB} | 16.57±4.27 ^{aA} | 19.20±4.67 ^{bcA} | 19.93±5.08 ^{aA} | 20.60±3.50 ^{aA} | 20.43±3.77 ^{aA} | 22.03±1.96 ^{aA} | 22.70±1.42 ^{aA} | 18.07±1.40 ^{aA} | 19.47±1.46 ^{aA} |
| 9 | -5.40±2.16 ^{aF} | -4.10±2.05 ^{cF} | 2.93±0.70 ^{cE} | 7.87±0.76 ^{bD} | 13.83±2.44 ^{aC} | 13.83±2.69 ^{bcC} | 14.80±0.80 ^{aBC} | 16.70±4.96 ^{aABC} | 16.40±3.00 ^{aABC} | 19.43±4.21 ^{aAB} | 19.57±3.29 ^{aAB} | 19.63±1.48 ^{aAB} | 20.30±0.92 ^{aA} |

^a Values that do not bear the same lowercase letter(s) within a column and the same uppercase letter(s) within a row are significantly different ($p < 0.05$). 1 (10 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 2 (10 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 3 (10 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 4 (15 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 5 (15 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 6 (15 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 7 (20 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 8 (20 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 9 (20 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW); n.d., not determined.

Table S3 Effect of edible coatings on the yellow intensity (b^*) of tomatoes during storage ^a

| Formulation | Yellow intensity (b^*) | | | | | | | | | | | | |
|-------------|----------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|----------------------------|
| | Number of Storage Days | | | | | | | | | | | | |
| | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| Control | 43.90±3.53 ^{aB} | 52.43±2.50 ^{aA} | 45.77±4.37 ^{aAB} | 39.03±6.12 ^{cB} | 45.73±4.65 ^{aAB} | 53.37±3.84 ^{aA} | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. |
| 1 | 42.37±1.59 ^{aB} | 50.17±2.95 ^{aAB} | 53.93±3.69 ^{aA} | 53.30±5.37 ^{abA} | 47.60±6.12 ^{aAB} | 53.27±6.70 ^{aA} | 50.57±2.89 ^{aAB} | 49.77±6.07 ^{aAB} | 53.47±7.34 ^{aA} | 49.43±1.05 ^{cdAB} | 48.33±0.61 ^{cAB} | 48.90±1.15 ^{aAB} | 50.17±3.78 ^{aAB} |
| 2 | 42.23±2.20 ^{aE} | 46.87±3.70 ^{aDE} | 49.77±3.02 ^{aABCD} | 48.50±4.50 ^{bBCD} | 51.77±1.76 ^{aABCD} | 53.30±1.39 ^{aABC} | 52.13±2.64 ^{aABCD} | 51.53±2.20 ^{aABCD} | 49.10±3.98 ^{aABCD} | 48.10±2.85 ^{dCD} | 54.37±3.17 ^{bA} | 52.43±2.38 ^{aABCD} | 54.17±3.36 ^{aAB} |
| 3 | 40.90±0.56 ^{aD} | 45.73±3.43 ^{aCD} | 50.20±7.31 ^{aABC} | 51.93±3.97 ^{abABC} | 57.17±1.36 ^{aAB} | 50.00±2.88 ^{aBC} | 52.47±3.79 ^{aABC} | 52.80±7.21 ^{aABC} | 53.60±1.48 ^{aAB} | 54.90±3.14 ^{abcAB} | 52.70±0.62 ^{bABC} | 57.77±4.11 ^{aA} | 50.30±0.95 ^{aBC} |
| 4 | 40.83±3.18 ^{aC} | 45.47±8.92 ^{aBC} | 48.93±7.81 ^{aAB} | 55.80±6.41 ^{abA} | 54.00±1.00 ^{aAB} | 53.97±1.04 ^{aAB} | 52.03±2.18 ^{aAB} | 53.57±2.06 ^{aAB} | 53.07±2.26 ^{aAB} | 56.50±4.51 ^{abA} | 53.03±1.46 ^{bAB} | 50.37±1.65 ^{aAB} | 51.33±4.70 ^{aAB} |
| 5 | 40.37±2.71 ^{aD} | 43.10±2.87 ^{aD} | 43.07±2.18 ^{aD} | 48.73±1.51 ^{bC} | 51.43±2.40 ^{aC} | 48.43±0.45 ^{aC} | 51.47±3.14 ^{aC} | 49.90±2.36 ^{aC} | 49.73±3.01 ^{aC} | 49.70±0.87 ^{cdC} | 57.17±1.61 ^{abA} | 55.60±1.67 ^{aAB} | 52.57±1.46 ^{aBC} |
| 6 | 41.20±1.55 ^{aB} | 49.40±9.72 ^{aAB} | 49.60±8.44 ^{aAB} | 51.40±2.95 ^{abAB} | 55.13±4.63 ^{aA} | 52.53±4.52 ^{aAB} | 51.20±1.87 ^{aAB} | 53.70±2.63 ^{aAB} | 51.87±4.38 ^{aAB} | 53.50±2.59 ^{abcdAB} | 59.37±2.68 ^{aA} | 41.83±17.78 ^{aB} | 53.87±4.11 ^{aAB} |
| 7 | 43.60±2.65 ^{aC} | 43.13±1.72 ^{aC} | 46.93±2.85 ^{aBC} | 48.50±3.06 ^{bBC} | 49.73±12.04 ^{aABC} | 50.13±3.73 ^{aABC} | 53.60±1.32 ^{aAB} | 53.50±3.30 ^{aAB} | 54.33±2.03 ^{aAB} | 53.47±1.97 ^{abcdAB} | 54.43±3.16 ^{bAB} | 56.67±1.63 ^{aA} | 54.77±1.53 ^{aAB} |
| 8 | 41.87±2.31 ^{aC} | 42.70±0.82 ^{aC} | 50.97±3.71 ^{aAB} | 55.97±2.92 ^{abA} | 54.00±3.75 ^{aA} | 54.60±5.81 ^{aA} | 52.13±2.94 ^{aA} | 52.93±3.15 ^{aA} | 53.77±4.20 ^{aA} | 50.93±1.96 ^{bcdAB} | 45.87±1.80 ^{cBC} | 51.93±3.70 ^{aA} | 49.90±1.30 ^{aAB} |
| 9 | 43.57±1.01 ^{aD} | 46.07±2.89 ^{aCD} | 51.13±6.19 ^{aBC} | 58.00±1.05 ^{aAB} | 55.17±7.29 ^{aAB} | 55.80±2.08 ^{aAB} | 58.43±5.16 ^{aAB} | 54.90±1.23 ^{aAB} | 59.23±3.61 ^{aA} | 58.60±5.91 ^{aAB} | 53.93±4.40 ^{bAB} | 50.80±2.45 ^{aBC} | 51.77±1.62 ^{aABC} |

^a Values that do not bear the same lowercase letter(s) within a column and the same uppercase letter(s) within a row are significantly different ($p < 0.05$). 1 (10 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 2 (10 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 3 (10 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 4 (15 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 5 (15 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 6 (15 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 7 (20 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 8 (20 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 9 (20 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW); n.d., not determined.

Table S4 Effect of edible coatings on the total color difference (ΔE) of tomatoes during storage ^a

| Formulation | Total color difference (ΔE) | | | | | | | | | | | | |
|-------------|---------------------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|
| | Number of Storage Days | | | | | | | | | | | | |
| | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| Control | - | 26.23±1.37 ^{aA} | 30.35±1.82 ^{aA} | 30.18±7.50 ^{aA} | 30.98±4.05 ^{aA} | 34.72±5.13 ^{aA} | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. |
| 1 | - | 13.78±2.77 ^{bC} | 19.85±2.04 ^{bB} | 19.98±4.85 ^{bB} | 24.52±2.11 ^{aAB} | 27.50±2.64 ^{bcA} | 26.40±2.78 ^{aA} | 24.79±4.53 ^{aAB} | 25.57±1.07 ^{aAB} | 25.06±2.86 ^{aAB} | 26.06±2.73 ^{aA} | 28.63±1.00 ^{aA} | 26.69±4.43 ^{aA} |
| 2 | - | 7.22±4.21 ^{bcE} | 13.53±2.15 ^{bcE} | 21.51±4.50 ^{bD} | 26.83±4.43 ^{aCD} | 26.07±5.60 ^{bcCD} | 27.64±4.18 ^{aBCD} | 27.66±4.97 ^{aBCD} | 28.52±3.49 ^{aBCD} | 27.34±4.35 ^{aBCD} | 34.07±1.46 ^{aAB} | 35.34±1.14 ^{aA} | 31.12±0.50 ^{aABC} |
| 3 | - | 7.06±4.65 ^{bcE} | 11.82±6.83 ^{cDE} | 15.36±5.95 ^{bCD} | 23.59±3.80 ^{aABC} | 20.06±1.03 ^{dBC} | 26.41±4.90 ^{aAB} | 24.53±7.04 ^{aAB} | 23.33±3.49 ^{aABC} | 32.12±1.99 ^{aA} | 29.17±5.46 ^{aA} | 27.99±3.31 ^{aAB} | 27.88±2.09 ^{aAB} |
| 4 | - | 5.22±5.71 ^{cD} | 11.65±4.65 ^{cC} | 21.20±3.91 ^{bB} | 25.72±3.37 ^{aAB} | 23.48±1.92 ^{cdAB} | 24.35±2.92 ^{aAB} | 27.93±4.45 ^{aAB} | 27.31±2.89 ^{aAB} | 28.27±3.10 ^{aA} | 28.70±2.89 ^{aA} | 30.45±1.31 ^{aA} | 29.41±4.15 ^{aA} |
| 5 | - | 4.00±3.02 ^{cD} | 10.43±0.92 ^{cC} | 15.63±0.84 ^{bB} | 27.83±1.77 ^{aA} | 27.16±1.97 ^{bcA} | 27.70±1.45 ^{aA} | 29.20±2.84 ^{aA} | 27.17±2.45 ^{aA} | 27.44±3.70 ^{aA} | 31.43±1.21 ^{aA} | 29.04±2.52 ^{aA} | 30.30±1.91 ^{aA} |
| 6 | - | 10.67±8.03 ^{bcD} | 13.00±7.41 ^{bcD} | 17.54±2.80 ^{bCD} | 25.95±1.62 ^{aBC} | 24.86±1.76 ^{bcdBC} | 25.93±2.29 ^{aBC} | 26.98±1.68 ^{aBC} | 26.60±3.38 ^{aBC} | 30.23±0.38 ^{aAB} | 30.40±1.16 ^{aAB} | 39.76±17.85 ^{aA} | 28.43±1.30 ^{aABC} |
| 7 | - | 5.25±0.82 ^{cF} | 13.29±2.31 ^{bcE} | 16.14±7.07 ^{bDE} | 21.77±11.22 ^{aBCD} | 20.57±0.76 ^{dCDE} | 27.38±2.35 ^{aABC} | 28.24±2.40 ^{aABC} | 27.58±2.28 ^{aABC} | 31.05±0.77 ^{aA} | 29.78±3.62 ^{aAB} | 29.70±1.55 ^{aAB} | 30.45±3.46 ^{aA} |
| 8 | - | 4.63±2.18 ^{cD} | 12.30±2.16 ^{cC} | 19.29±4.43 ^{bB} | 26.28±1.57 ^{aA} | 29.24±0.81 ^{bA} | 28.50±3.32 ^{aA} | 29.38±2.19 ^{aA} | 29.65±1.76 ^{aA} | 29.89±2.01 ^{aA} | 29.97±1.74 ^{aA} | 26.39±1.63 ^{aA} | 27.17±2.11 ^{aA} |
| 9 | - | 3.82±1.73 ^{cF} | 12.31±2.85 ^{cE} | 19.89±1.40 ^{bD} | 22.87±3.91 ^{aCD} | 22.88±1.55 ^{cdCD} | 25.40±2.23 ^{aBC} | 25.05±2.77 ^{aBC} | 27.13±1.90 ^{aABC} | 29.75±1.57 ^{aA} | 27.50±2.36 ^{aAB} | 26.23±1.08 ^{aABC} | 27.20±2.35 ^{aABC} |

^a Values that do not bear the same lowercase letter(s) within a column and the same uppercase letter(s) within a row are significantly different ($p < 0.05$). 1 (10 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 2 (10 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 3 (10 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 4 (15 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 5 (15 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 6 (15 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW), 7 (20 g L⁻¹ AS, 0 mL L⁻¹ EO, 5 g L⁻¹ BW), 8 (20 g L⁻¹ AS, 2.5 mL L⁻¹ EO, 5 g L⁻¹ BW), 9 (20 g L⁻¹ AS, 5 mL L⁻¹ EO, 5 g L⁻¹ BW); n.d., not determined.