Table 3 - Physical and mechanical properties of agar-based film incorporated with PH or CEO

Properties	Control	PH	CEO
Thickness (mm)	$0.043^{b} \pm 0.001$	$0.044^{b} \pm 0.002$	$0.061^{a} \pm 0.012$
TS (MPa)	$27.46^{a} \pm 2.78$	$19.89^{b} \pm 1.81$	$10.16^{c} \pm 1.02$
EB (%)	$22.24^{b} \pm 3.55$	$42.70^{a} \pm 1.38$	$3.93^{c} \pm 0.15$
WVP (x 10^{-8}) (g mm/ h Pa cm^2)	$1.40^{b} \pm 0.04$	$3.61^{a} \pm 0.11$	$3.37^{a} \pm 0.16$
Solubility (%)	$21.95^{b} \pm 1.52$	$48.86^{a} \pm 2.22$	$20.86^{b} \pm 1.99$
*L**	$96.03^{a} \pm 0.14$	$96.14^{a} \pm 0.13$	$96.25^{a} \pm 0.08$
*a**	$- 0.51^{b} \pm 0.00$	$- 0.61^{a} \pm 0.02$	$- 0.54^{b} \pm 0.01$
*b**	$3.65^{b} \pm 0.09$	$4.21^{a} \pm 0.16$	$3.70^{b} \pm 0.15$
Y (%)	$10.23^{b} \pm 0.20$	$9.66^{b} \pm 0.20$	$12.80^{a} \pm 0.21$
Transparency	$1.57^{b} \pm 0.06$	$1.55^{b} \pm 0.06$	$4.87^{a} \pm 0.09$

Control: Agar-based films without the incorporation of active compounds; PH: films with the incorporation of hydrolysate; CEO: agar-based films incorporated with clove essential oil; TS: tensile strength; EB: elongation at break, WVP: water vapor permeability; L*: luminosity ranges from 0 (black) to 100 (white); a*: green-red coordinate (-a *: green, + a *: red); b*: blue-yellow coordinate (-b*: blue, + b*: yellow; Y: opacity; Equal letters on the same row indicate that there is no significant difference ($p > 0.05$).