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The relatively high values of  $R^2$  indicate that equation 1 is suitable for calculating the viscosities of the gel samples analyzed, depending on the D values in the range of 1.5 to  $72.9 \text{ s}^{-1}$ .

### CONCLUSION

In this study samples obtained with different gel-forming components were used and the rheological behavior of the products was investigated. It has become increasingly important factor for today's formulators in optimizing the performance and sensory attributes of final products. The used stabilizers can be the key to the gels' rheological behavior. The results obtained in this research indicated that water soluble carboxymethyl chitosan which could be successfully find applications in pharmaceutical and cosmetics.

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