

## Accepted Manuscript

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## Shear and extensional rheological characterisation of mucin solutions

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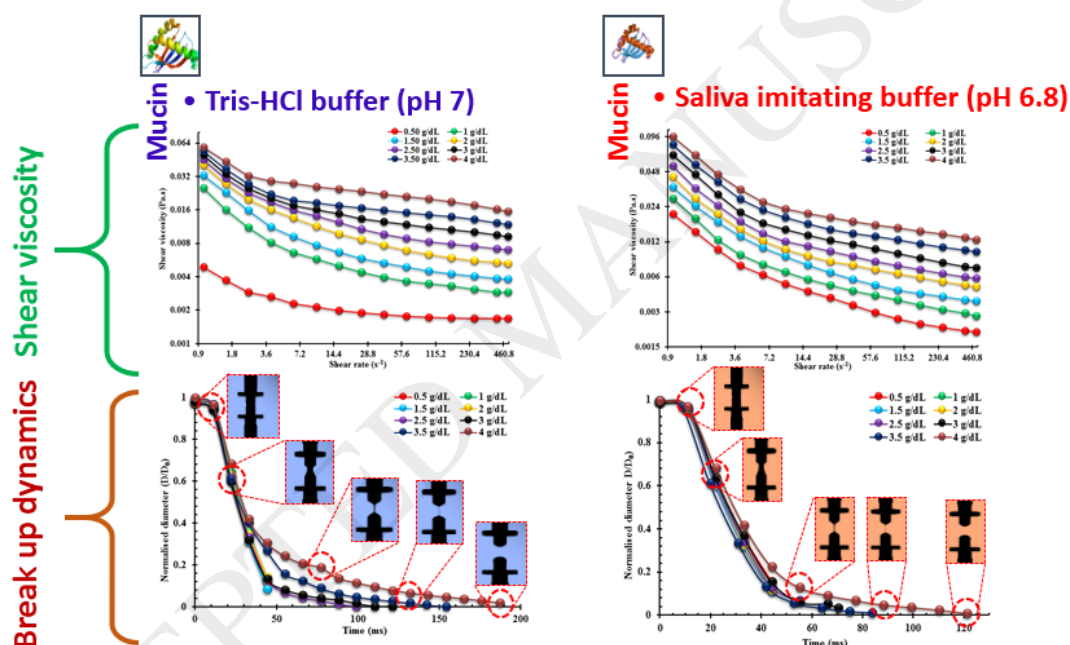
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### Graphical Abstract



### Highlights

- Shear and extensional flow behaviour of mucin solutions were analysed.
- Mucin exhibited the typical shear thinning phenomenon at a critical shear rate.
- Higher Trouton ratios of mucin indicated the dominated extensional viscosity.
- Relaxation times and surface tensions of mucin were concentration-dependent.

### Abstract

The objective of this work is to obtain a concise image of mucin's assembly, structure and mechanics in saliva imitating buffer, in comparison to low ionic strength solutions. The

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