

Oxford Accupet L vs Rainin Ejection Force Study

Introduction

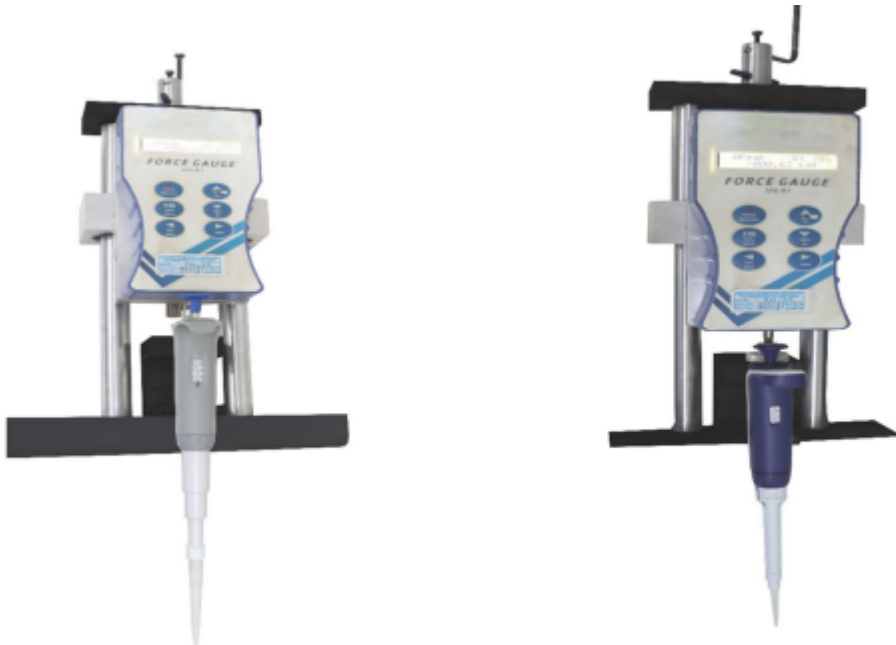
Oxford Accupet L (Low Force) Pipettes are designed with ergonomics and accuracy as its conceptual pillars. Rainin LTS® pipettes being renowned in this segment for their low ejection force calls for an interesting comparison between the two pipettes.

Scope

The study compares ejection force between Oxford Accupet L and Rainin XLS Pipette Lite LTS® single channel pipettes.

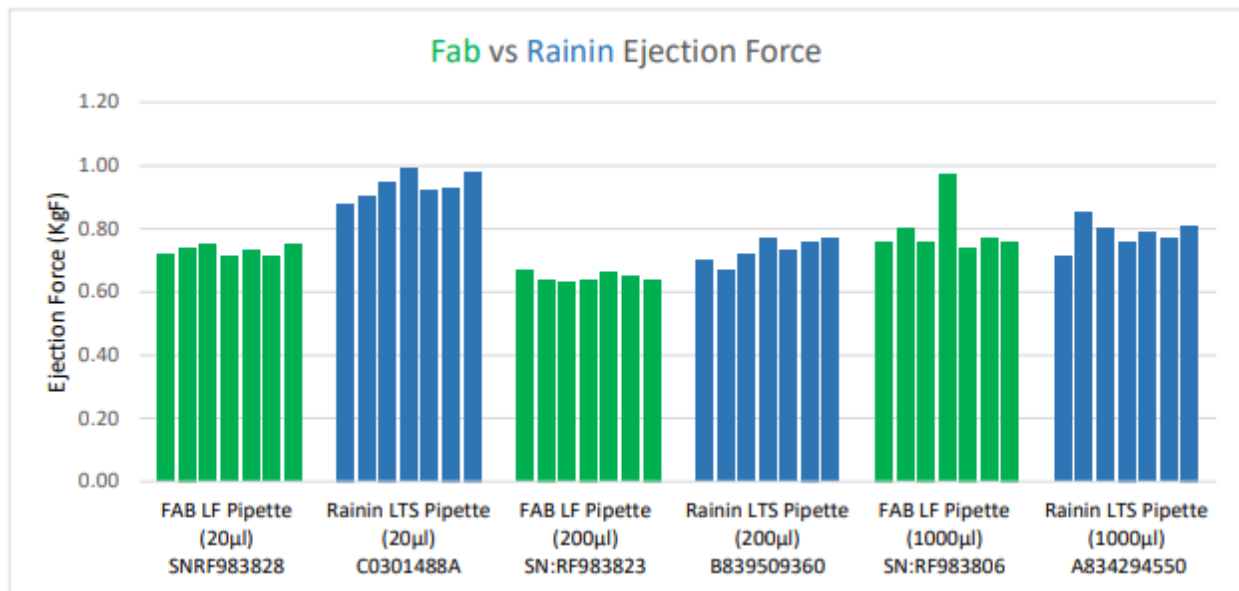
Methodology

The ejection force of the pipette is measured using a calibrated force gauge. The force gauge is mounted onto a caliper stand that facilitates vertical motion, the pipette is held in place directly below the gauge using a metal clamp, the pipette ejector is aligned directly above the gauge. The gauge is then lowered onto the ejector into the tip ejects to measure ejection force in KgF.



Note: The force gauge is externally calibrated by a third-party laboratory and is verified using standard weights in house.

Results:



Conclusion

Both Oxford Accupet L and Rainin LTS® pipettes show significantly reduced ejection force in comparison to industry range of 3 to 10 KgF. As per data collected, FAB LF pipettes have on average lower or comparable ejection force when compared to Rainin LTS® pipettes.