Sol M Performance Testing

Thomas Scientific

SYRINGES

Sol - M™ 3 Piece Syringes

	Sol M	Market Leader
Visual inspection	☺	😐
Tolerance on the graduated scale	☺	☺
Dead Space	☺	☺
Gasket sliding	☺	😐
Air leakage	☺	☺
Liquid leakage	☺	☺
Piston Pullout Force	☺	☹
Plunger stopper/plunger assembly	☺	☺
Gradated Scale Resistance	☺	☹
Flanges projecting	☺	☺
Components weight	☺	☺

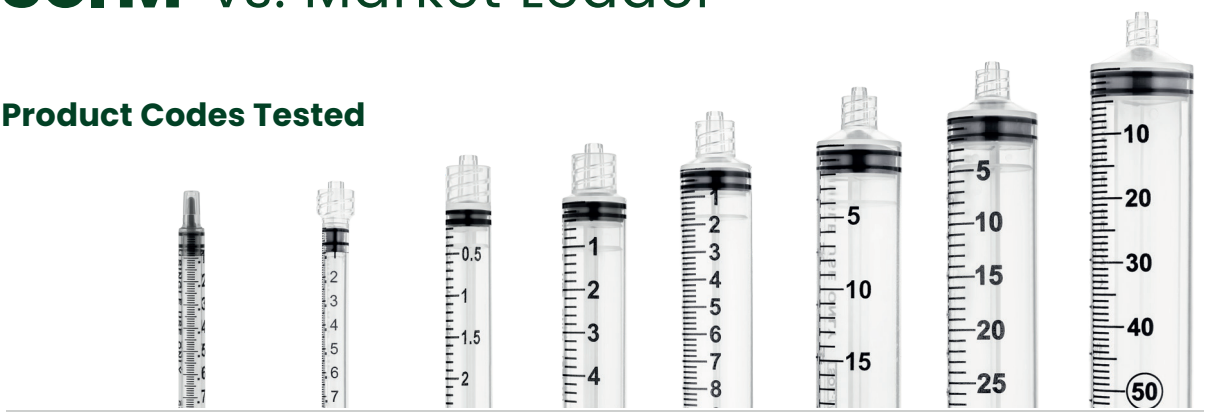
☺ Both syringes meet the requirements and performance is comparable

😐 Both syringes meets the requirements but Market Leader's performance is worse

☹ More than one syringe does not meet requirements

Sol M vs. Market Leader

Product Codes Tested



	1ml ST	1ml LL	3ml	5ml	10ml	20ml	30ml	60ml
Thomas #	22A00B380	21A00A509	21A00A506	21A00A507	22A00B378	22A00B379	22A00A394	21A00A508

Testing Performed by Sol M

1. **Visual inspection:**
   Cleanliness, damages, graduation printing clarity and readability, print quality, barrel transparency, labeling
2. **Tolerance** on the graduated scale in accordance with ISO 7886-1:2017
3. **Dead space** in accordance with ISO 7886-1:2017 Annex C
4. **Gasket Sliding** in accordance with ISO 7886-1:2017 Annex E
5. **Air leakage** past syringe plunger stopper during aspiration in accordance with ISO 7886-1:2017 Annex B
6. **Liquid leakage** at syringe plunger stopper under compression in accordance with ISO 7886-1:2017 Annex D
7. **Piston Pullout Force**
8. **Plunger stopper/plunger assembly**
9. **Graduated scale resistance** to sanitizing agent (isopropyl alcohol)
10. **Barrel flanges design**
11. **Component weight**

Testing was performed on an average sample size of 20 syringes (per brand)

Conclusion:

The outcome of the testing completed helps demonstrate that Sol-M™ Syringes perform equivalently, and in some cases better, than the market leading products.

For more information, please contact your dedicated Thomas Scientific Sales Representative.