

How Do You Measure Syringe Excellence?



SGE SYRINGE ACCURACY SPECIFICATION $\pm 1\%$

SGE 10 μ L syringe: PASS
Competitor's 10 μ L syringe: FAIL

Results calculated on ten syringes. ALL ten SGE Syringes passed. Four of the ten Competitor's Syringes failed..

At SGE, we are not prepared to rely merely on our past reputation of excellence, but believe that the knowledge gained through over 32 years of syringe research, development and manufacture, along with a continuing devotion to ongoing technical innovation and perfection, combine to allow us to produce the best syringes available.

We are continually analyzing our manufacturing techniques and customer service to supply the superior results expected from SGE. We also investigate a competitor's product to ensure that SGE remains at the forefront of modern syringe technology.

Recent independent tests looked at standard 10 μ L glass syringes from SGE and another well-known manufacturer. Ten syringes were selected at random from each manufacturer. These syringes came from a range of batches over a three month period. Dimensional checks were made on the scale lengths and plunger diameters. From these measurements, the actual full syringe accuracy can be calculated.

The results show an average volume variation of just 0.062 μ L with the SGE syringes; well within the guaranteed $\pm 1\%$ error stated on the conformance certificate shipped with all SGE syringes. Four out of the ten competitor's syringes did not fall within SGE's strict quality control for volume precision. This conformance certificate is your proof that each and every syringe from SGE continues to be accurate, precise and of exceptional quality.

No claim of accuracy for the competitor's syringes could be found in their most recent catalogue.

SGE must also ensure that the syringes are readily available. SGE is the major OEM supplier to all of the leading instrument manufacturers, companies whose criteria for quality, performance and delivery are extremely high. Any deviation is out of the question. If a syringe needs to be replaced, you don't need to be kept waiting.

SGE's superior manufacturing processes allow for most of the syringes in the product range to be kept in stock.

MEASURED RESULTS FOR 10 μ L SYRINGES

Manufacturer	Scale Length Variation (mm)	Plunger Diameter Variation (mm)	Full Syringe Capacity Variation (μ L)	Average Syringe Volume (μ L)	Average Volume Variation from 10 μ L
SGE	0.127	0.0025	0.10	10.062	0.062
Competitor	0.308	0.0034	0.19	9.906	0.096

When it comes to syringes, it's simple – Quality, Accuracy, Precision and Prompt Delivery.