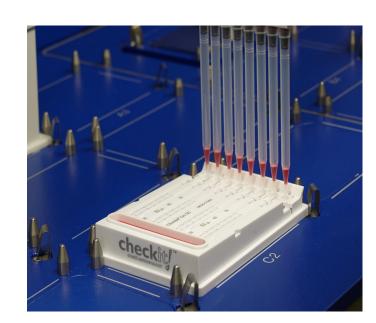
## **Checkit<sup>®</sup> Go: Validate the Accuracy of Your Liquid Handlers** by Transforming Your Sample Solution to a Test Solution.

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## **Overview** • The physical properties of different liquids **EtOH** typically vary due to their differences in density, viscosity, surface tension, etc. • These differences in physical properties of the liquids can alter their dispensed volume by a liquid handling system. • Using water as the default liquid class setting can introduce errors while dispensing most commonly dispensed sample liquids. (EtOH, DMSO, GLY, etc.) • It is best to use the sample liquids<sup>†</sup> as the test liquid<sup>‡</sup> while optimizing the liquid handlers to be precise. • The Checkit<sup>®</sup> Go uses capillary technology which is compatible with most typical sample liquids and concentrations.

## Introduction



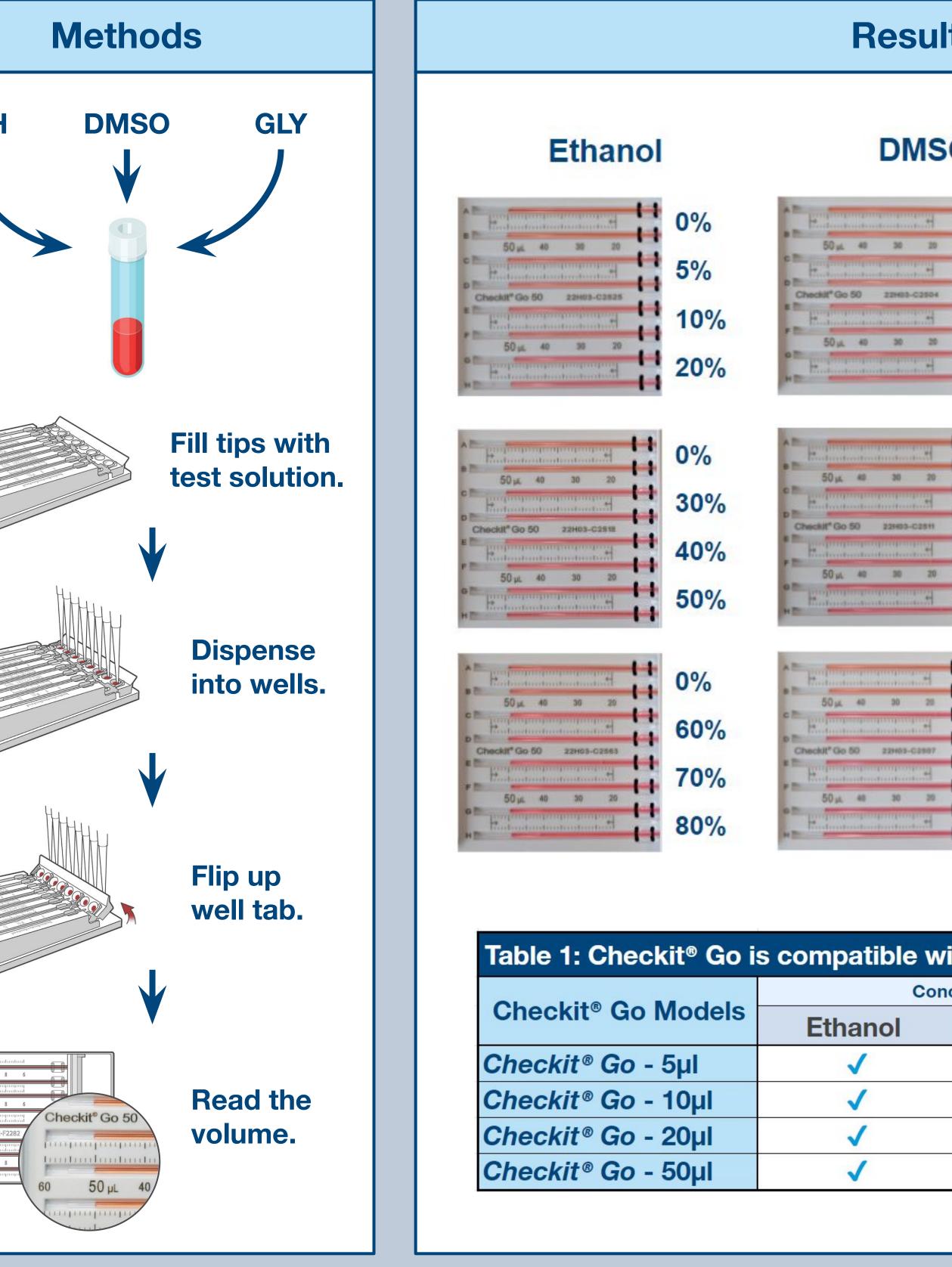
**Challenge:** 

**Test liquids used to** verify the accuracy of liquid handlers should reflect the physical properties of the sample liquids.

**Objective:** 

Determine if the Checkit<sup>®</sup> Go allows for the use of common sample liquids (EtOH, DMSO, GLY).





<sup>‡</sup> Test Liquid - the liquid used for validation.







Ition <sup>1</sup> Next Advance, Inc <sup>2</sup> Binghamton University	
lts	Discussion
<b>50 Glycerol</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b>	<ul> <li>The Checkit<sup>®</sup> Go was compatible with ethanol, DMSO, and glycerol concentrations up to 80%.</li> <li>Accurate measurements were observed across all of the different Checkit<sup>®</sup> Go models.</li> </ul>
20%	
1: 0%	Conclusion
$0^{70}$ $0^{70}$ $0^{70}$ $30\%$ $40\%$ $30\%$ $40\%$ $50\%$ $40\%$ $50\%$ $0^{70}$ $50\%$ $0^{70}$ $0^{70}$ $50\%$ $0^{70}$	<text></text>
ncentrations Tested: 5%-80%	
DMSO Glycerol	Questions? jbeskid1@binghamton.edu
	Please Scan QR Code to access virtual poster
Demo Checkit® Go at Booth 512	

