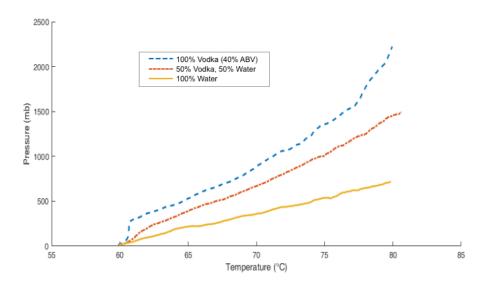
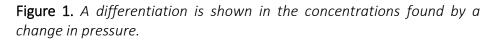


Party Safe Alcohol Tester

The technology

Researchers at Virginia Commonwealth University have developed a novel device that rapidly detects alcohol concentration in mixed drinks. This small device, about the size of an e-cigarette, is portable and can be easily stored in pant pockets or a purse. To determine alcohol concentration, the pen-like device can be placed in the liquid for a small sample intake (0.5mL sample size) where sensors can analyze concentration and display warnings based on the concentration of alcohol. Testing has been conducted to show a differentiation in concentrations found by a change in pressure. Based on testing with ranging alcohol concentration solutions, VCU inventors found a clear differentiation in pressure at each concentration (Figure 1).





Benefits

- >>Small, portable pen-like device
- >>Easy to use and rapid (within 30 seconds) concentration tester
- Clear differentiation in alcohol solutions

Applications

- >>To determine alcohol content in mixed drink
- Law enforcement aid
- Concentration tester for homebrewing

Patent status:

Patent issued: U.S. rights are available. 15/463,064

License status:

This technology is available for licensing to industry for further development and commercialization.

Category:

Engineering and Physical Science

VCU Tech #:

15-092

Investigators:

Boris Solomonov

Prototype has been tested

Contact us about this technology

Brent Fagg, MS Licensing Associate <u>bfagg@vcu.edu</u> (804) 827-2211