

Resource Summary Report

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Coil Resistance Testing Apparatus for VUSE ALTO

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Proper Citation

Qutaiba Saleh, Edward Hensel, Risa Robinson 2020. Coil Resistance Testing Apparatus for VUSE ALTO. protocols.io dx.doi.org/10.17504/protocols.io.bibnkame

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bibnkame>

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Summary: Measuring coil resistance of Electronic Nicotine Delivery Systems (ENDS) accurately is critical in any research studying the characteristics of electronic cigarettes and their effects on the performance of these devices. It has been shown in several papers that changing coil resistance has the potential to change the Hazardous and Potentially Hazardous Constituents (HPHC) of emissions and consequently health effects on users. This protocol describes how to build a test apparatus for coil resistance measurement for ENDS. This apparatus mimics the geometrical and electrical characteristics of the ENDS and thus provides accurate measurements of the effective coil resistance. The steps shown in this protocol are illustrated for creating a VUSE ALTO test apparatus, but the general idea can be applied to other devices.

Associated Publications:

MDPI and ACS Style Saleh, Q.M.; Hensel, E.C.; Robinson, R.J. Method for Quantifying Variation in the Resistance of Electronic Cigarette Coils. *Int. J. Environ. Res. Public Health* 2020, 17, 7779.

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