



Electronic Cigarette Standards

The popularity of vaping and electronic cigarettes has brought up many questions about possible health concerns.

The "juice" used in these devices along with the heating element or atomizer, can introduce many different organic and inorganic chemicals into the body. One pod of the introduced oil can contain approximately the same amount of nicotine found in 20 cigarettes. The aerosol released to both the user and the second-hand vapor can contain aldehydes, PAHs, organic acids, nicotine degradation products and trace heavy metals, all of which may be a concern to human health and the environment.

Currently, there are no regulations regarding the use of these chemicals in vaping products, but AccuStandard is aware of the concern.

We are now offering the following analytical standards for research analysis.

British America Tobacco Analysis

BAT-EC-01	1 mL
	5 comps.
	%w/w
Nicotine	1
Water	18
Glycerol	49
Propylene glycol	31.98
4-(4-Hydroxyphenyl)-2-butanone	0.02



Varied Solvent Ratio Standards for Nicotine Analysis

Nicotine Standard 1	1 mL
EC-NIC-01S	
10 mg/mL in Propylene glycol:Glycerol (80:20)	
Nicotine	

Nicotine Standard 2	1 mL
EC-NIC-02S	
10 mg/mL in Propylene glycol:Glycerol (50:50)	
Nicotine	

Nicotine Standard 3	1 mL
EC-NIC-03S	
10 mg/mL in Propylene glycol:Glycerol (20:80)	
Nicotine	

N'-Nitrosonornicotine Standard	1 mL
EC-NIC-04S	
10 µg/g in Propylene glycol:Glycerol (50:50)	
N'-Nitrosonornicotine	

Nicotine Degradation Standard	1 mL
EC-NIC-05S	
500 µg/g each in Propylene glycol:Glycerol (50:50)	
	2 comps.
(R,S)-Anabasine	
Cotinine	



Organic Functional Group Analysis

Aldehyde Standard	1 mL
EC-ALD-01S	
50 µg/mL each in Propylene glycol	2 comps.
Acetaldehyde	
Formaldehyde	

PAH Standard	1 mL
EC-PAH-01S	
10 µg/g each in Propylene glycol:Glycerol (50:50)	2 comps.
4-Aminobiphenyl	
Benz[a]pyrene	

Organic Acids Standard	1 mL
EC-ACD-01S	
1000 µg/g in Propylene glycol:Glycerol (50:50)	2 comps.
Acetic acid	
L-(+)-Lactic acid	

Heavy Metals Analysis

Trace Metals Standard	100 mL
EC-MET-01S-1	
10 µg/mL each in 2% Nitric Acid	4 comps.
Cadmium	
Chromium	
Copper	
Nickel	

Trace Metals Standard	100 mL
EC-MET-02S-1	
10 µg/mL each in 2% Nitric Acid	5 comps.
Aluminum	
Arsenic	
Iron	
Lead	
Manganese	