

Source and Route of Pyrrolizidine Alkaloid Contamination in Tea Samples

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Materials

Name	Company	Catalog Number	Comments
Acetonitrile (99.9%)	Tedia Company, Inc.	21115197	CAS No:75-05-8
Ammonia (25%-28%)	Wuxi Zhanwang Chemical Reagent Co., Ltd.	181210	CAS No:1336-21-6
Ammonium formate (97.0%)	Anpel Laboratory Technologies (shanghai)	G0860050	CAS No:540-69-2
Carbon-GCB	CNW	B7760030	120-400 MESH, 10g. per box
Centrifuge Z 36 HK	HERMLE	Z36HK	30000 rpm (min:10 rpm), Dimensions (W x H x D): 71.5 cm x 42 cm x 51 cm
Commercially available tea product	Lvming, Qingshan, Luyuchun, Changling, Huixing, Wuyunjian, Heshengchun	loose tea	Green tea
Europine N-oxid (EuNO) (98.0%)	BioCrick	323256	CAS No:65582-53-8
Europine (Eu) (98.0%)	BioCrick	98222	CAS No:570-19-4
Formate (98.0%)	Aladdin	E2022005	CAS No:64-18-6
HC-C18	CNW	D2110060	40-63 µm, 100g. per box
Heliotrine (He) (98.0%)	BioCrick	906426	CAS No:303-33-3
Heliotrine-N-oxide (HeNO) (98.0%)	BioCrick	22581	CAS No:6209-65-0
High speed centrifuge TG16-WS	cence	203158000	Max:16000 r/min, 330 x 390 x 300 mm (L x W x H), Capacity: 6 x 50 mL
HSS T3 column	Waters	186004976	ACQUITY UPLC HSS T3 (2.1 x 100 mm 1.8 µm)
Intermedine (Im) (98.0%)	BioCrick	114843	CAS No:10285-06-0
Intermedine-N-oxide (ImNO) (98.0%)	BioCrick	340066	CAS No:95462-14-9
Jacobine (Jb) (98.0%)	BioCrick	132282048	CAS No:6870-67-3
Jacobine-N-oxide (JbNO) (98.0%)	ChemFaces	CFN00461	CAS No:38710-25-7
Methyl Alcohol (99.9%)	Tedia Company, Inc.	21115100	CAS No:67-56-1
PSA	Agela	P19-00833	40-60 µm, 60 Å 100g. per box

Retrorsine (Re) (98.0%)	BioCrick	5281743	CAS No:480-54-6
Retrorsine-N-oxide (ReNO) (98.0%)	BioCrick	5281734	CAS No:15503-86-3
Senecionine (Sc) (98.0%)	BioCrick	5280906	CAS No:130-01-8
Senecionine-N-oxide (ScNO) (98.0%)	BioCrick	5380876	CAS No:13268-67-2
Seneciophylline N-oxid (SpNO) (98.0%)	BioCrick	6442619	CAS No:38710-26-8
Seneciophylline (Sp) (98.0%)	BioCrick	5281750	CAS No:480-81-9
Senkirkine (Sk) (98.0%)	BioCrick	5281752	CAS No:2318-18-5
SPE PCX	Agilent Technologies	12108206	Cation Mixed Mode, 6 mL
Sulfuric acid (97%)	Wuxi Zhanwang Chemical Reagent Co., Ltd.	1003019	CAS No:7664-93-9
Trisodium citrate	Sinpharm Chemical Reagent Co., Ltd.	20121009	CAS No:6132-04-3
Ultrasonic cleaner	Supmile	KQ-600B	Inner slot size: 500 × 300 × 150 mm; Capacity: 22.5 L
UPLC-xevoTQMS	Waters	ZPLY-003	Triple four-stage rod mass analyzer, Waters Alliance 2695/Waters ACQUITY UPLC Liquid Phase System
Water bath thermostat oscillator	Guoyu instrument	SHY-2AHS	Oscillation times: 60-300 times/min, Constant temperature range: room temperature to 100 °C