



A POLYMERIC COLUMN FOR THE EXTRACTION OF THC AND METABOLITES



Product Benefits

- Simple one-step extraction elutes all three (3) THC analytes (THC-△-9, THC-hydroxy metabolite and THC-carboxy metabolite)
- Enhanced dual mechanism to accommodate hydrophobic character of the THC parent and metabolites
- 10-20 µm particle size and minimum bed volume for consistent flow through column
- · Column conditioning is not required
- Highly reproducible extraction

STYRE SCREEN® THC

Application: Polymeric bead for the extraction of THC and THC metabolites (THC-delta-9,

THC-hydroxy metabolite and THC-carboxy metabolite)

COLUMNS						
Tube Volume (mL)	Sorbent Amount (mg)	Units per Pack	Part Number			
1	30	100	SSTHC031			
3	60	50	SSTHC063			
6	60	50	SSTHC066			
10	60	50	SSTHC06Z			
6	100	50	SSTHC116			
10	100	50	SSTHC11Z			

Method for the Extraction of THC- Δ -9, THC-Hydroxy Metabolite and THC-Carboxy Metabolite from Whole Blood

Part

SSTHC116 – STYRE SCREEN® THC 100 mg, 6 mL Tube SLDA100ID21 – 5UM – SELECTRA® DA HPLC Column 100 x 2.1mm, 5 µm

1. PREPARE SAMPLE:

To 1-2 mL whole blood add appropriate internal standards prepared in alcohol

Add drop-wise 2.5 mL Ice Cold acetonitrile

Mix thoroughly and centrifuge

Decant acetonitrile into a clean tube.

Evaporate acetonitrile under a stream or air or nitrogen

Add 2 mL D.I. H_2O (pH of H_2O must be ~ 6.0-7.0)

2. APPLY SAMPLE:

Load at 1 to 2 mL/minute.

4. WASH COLUMN:

Wash with 2 mL (84: 15: 1) D.I. H₂O: Acetonitrile: NH₄OH (made fresh daily) Dry column under full vacuum or pressure for 10-15 minutes

5. ELUTE THC & metabolites:

1 x 3 mL Hexane/ Ethyl Acetate/ Glacial Acetic Acid (49: 49:2) Collect at 1-2 mL/ minute.

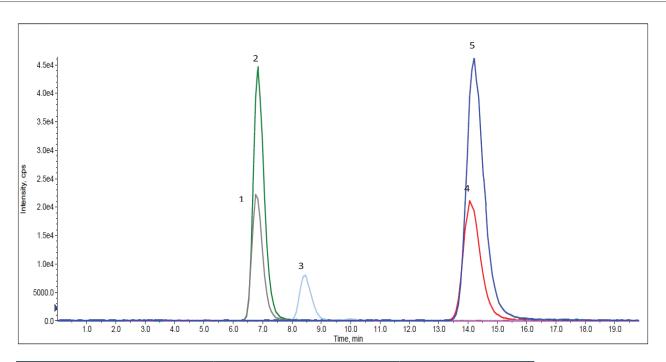
6. DRY ELUATE:

Evaporate to dryness at < 40° C.

7. RECONSTITUTE / DERIVATIZE:

 LC-MS/MS: Reconstitute sample in 100 μL of mobile phase Inject 5 μL.

Ion Chromatograms of THC-△-9, THC-Hydroxy Metabolite and THC-Carboxy Metabolite



Analyte		MRM Transitions		Relative
		Q1	O 3	Retention Time (minutes)
1.	HYDROXY DELTA 9-THC D ₃	334.0	316.2	6.80
2.	HYDROXY DELTA 9-THC	330.9	313.2	6.88
3.	CARBOXY DELTA 9-THC	334.0	316.2	8.47
	CARBOXY DELTA 9-THC D ₃	348.3	303.0	-
4.	DELTA 9-THC D ₃	318.2	196.2	14.20
5.	DELTA 9-THC	315.2	196.2	14.31

PARAMETERS

Instrument: API 4000 Qtrap MS/MS with Agilent 1200 Binary Pump SL HPLC Column: SELECTRA® DA HPLC Column 100 x 2.1mm, 5 μ m

Polarity: Negative/ Positive Injection Volume: 5 μL Flow Rate: 0.5 mL/minute Reconstitute: 100 μL

Mobile Phase A: 0.1% formic acid D.I. H₂O **Mobile Phase B:** 0.1% formic acid in MeOH

Gradient:

Time	%A	%B	
0.00	25	75	
20.00	STOP		

PRICES AND TERMS

Our prices are subject to change without notice. The price in effect when we receive your order will apply. All prices are in US Dollars and are F.O.B. Lewistown, PA 17044. Terms of payment are net 30 days.

MINIMUM ORDERS

We welcome all orders, therefore, we do not have a minimum order requirement. When ordering, please include your purchase order number, complete "Ship To" and "Bill To" address, catalog number, quantity, and description of product(s). Also include your name and a phone number where you can be reached should we have any questions concerning your order.

SHIPMENTS

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SPECIAL PRICING

We offer special pricing for volume purchases and standing orders. These discounts apply to bonded phase extraction column purchases only. Please call a sales representative for more information on special pricing qualifications.

RETURN POLICY

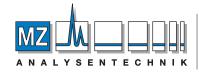
Our Quality Manager will handle all returns. Before returning merchandise, please call to obtain a return authorization number from the quality manager. We will need to know the reason for the return, date of purchase, purchase order number and invoice number in order to issue a return authorization number. Return merchandise must be received before a credit can be issued. Returns will not be accepted after 90 days. A restocking fee of 25% of the price paid, or a minimum of \$25.00 (whichever is greater) will be charged on all returns.

WARRANTY

All products manufactured by UCT are guaranteed against defects in materials and workmanship for a period of 90 days after shipment. UCT will replace any items that prove to be defective during this time period.

The exclusive remedy requires the end user to first advise UCT of the defective product by phone or in writing. Secondly, the defective product must be returned within 30 days after proper approval from our Quality Manager. All returns must indicate the purchase order number, the lot number and the shipping date. UCT's total liability is limited to the replacement cost of UCT products.

This warranty does not apply to damage resulting from misuse.



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