Project: PF14F0002

Compound: MES

Analytical Run: AR18
Current Date: 3/13/2014
Current Time: 2:58:00 PM
Date Calibrated: 3/13/2014 2:57:48 PM
Date Acquired: 3/13/2014 1:40:50 PM

Intercept: 16009.498889

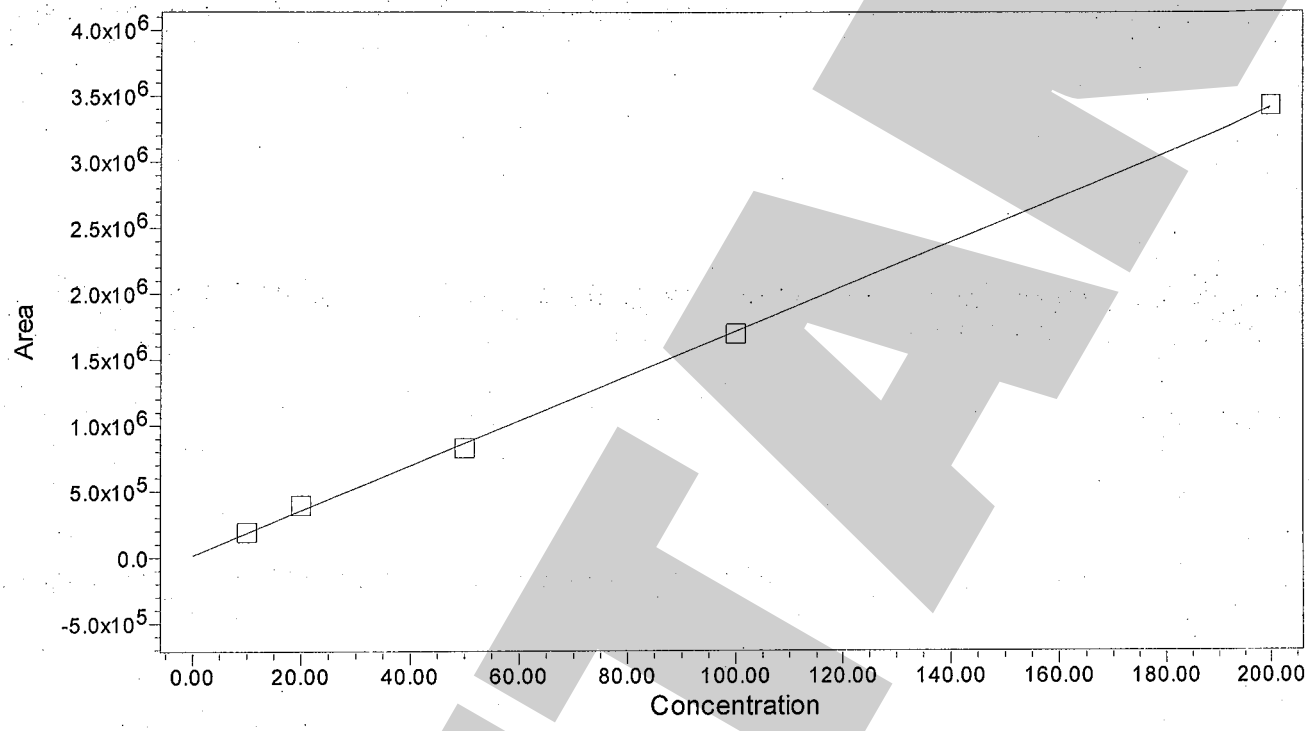
Slope: 16962.777513

r: 0.999748

Fit Type: Linear (1st Order)
Weighting: None

Units: ug/mL

Calibration Plot



	Name	Level	X Value	Response	Calc. Value	% Deviation	Manual	Ignore
1	MES	W1	10.000000	191321.146273	10.335079	3.35079	No	No
2	MES	W2	20.000000	392243.050000	22.179950	10.89975	No	No
3	MES	W3	50.000000	826097.400000	47.756796	-4.48641	No	No
4	MES	W4	100.000000	1692003.953295	98.804247	-1.19575	No	No
5	MES	W5	200.000000	3424237.400000	200.923929	0.46196	No	No

Software Version 4.00

Project: PF14F0002 Current Date: 3/13/2014

Analytical Run: AR18 Current Time: 2:58:14 PM

Peak Results
Name: MES

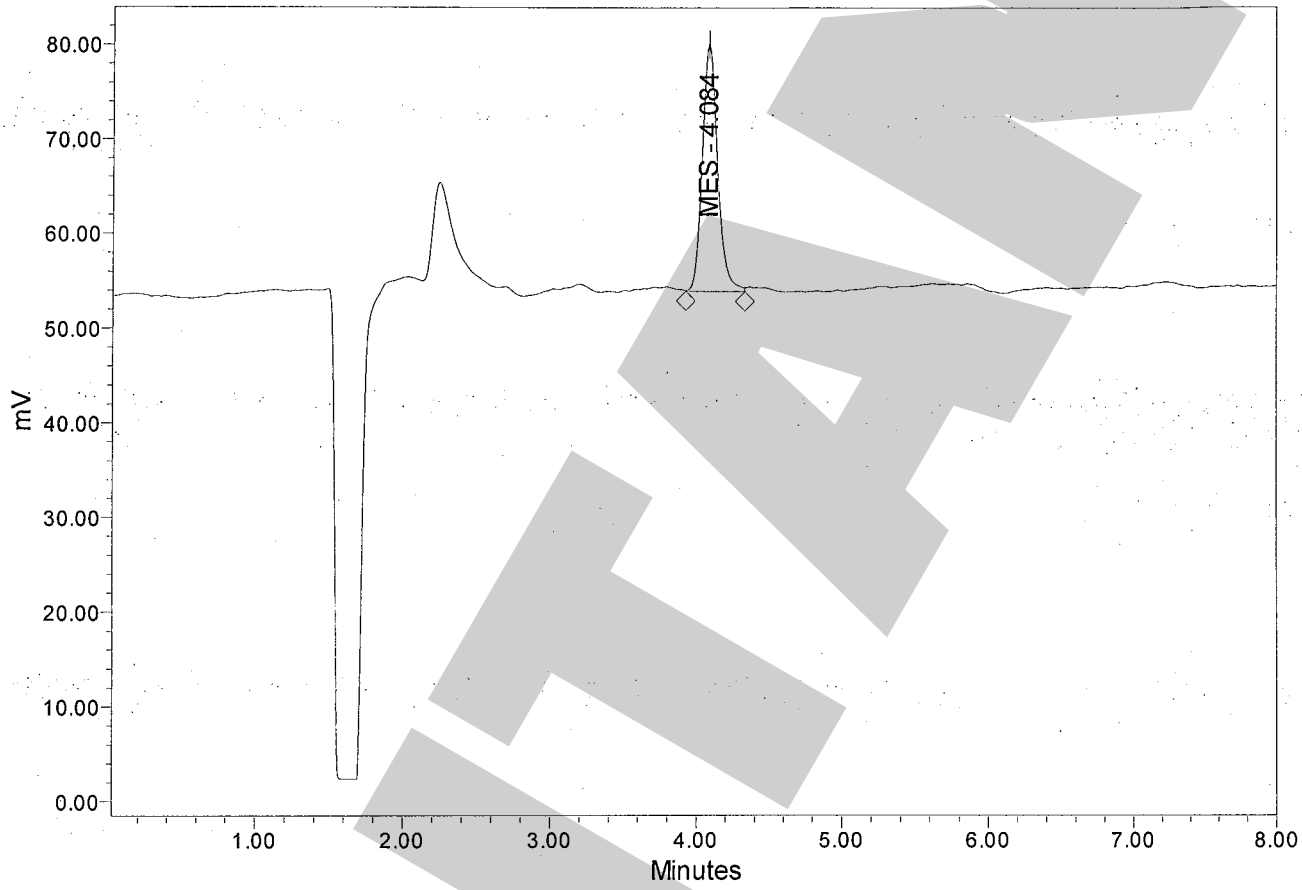
	SampleName	Name	Label	Sample Type	Area	Concentration	Units	Dilution
1	MES 10ug/mL	MES		Standard	191321	10.00000	ug/mL	1.00
2	MES 20ug/mL	MES		Standard	392243	20.00000	ug/mL	1.00
3	MES 50ug/mL	MES		Standard	826097	50.00000	ug/mL	1.00
4	MES 100ug/mL	MES		Standard	1692004	100.00000	ug/mL	1.00
5	MES 200ug/mL	MES		Standard	3424237	200.00000	ug/mL	1.00
6	S1 50ug/mL	MES		Unknown	833276	24090.00237	ug/mL	500.00
7	S1 50ug/mL	MES		Unknown	831244	24030.11522	ug/mL	500.00
8	S1 50ug/mL	MES		Unknown	851017	24612.92865	ug/mL	500.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:32 PM
Date Acquired: 3/13/2014 1:40:50 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: MES 10ug/mL
Injection Id: 4378

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	MES 10ug/mL	4.084	26216	191321	1	100.00

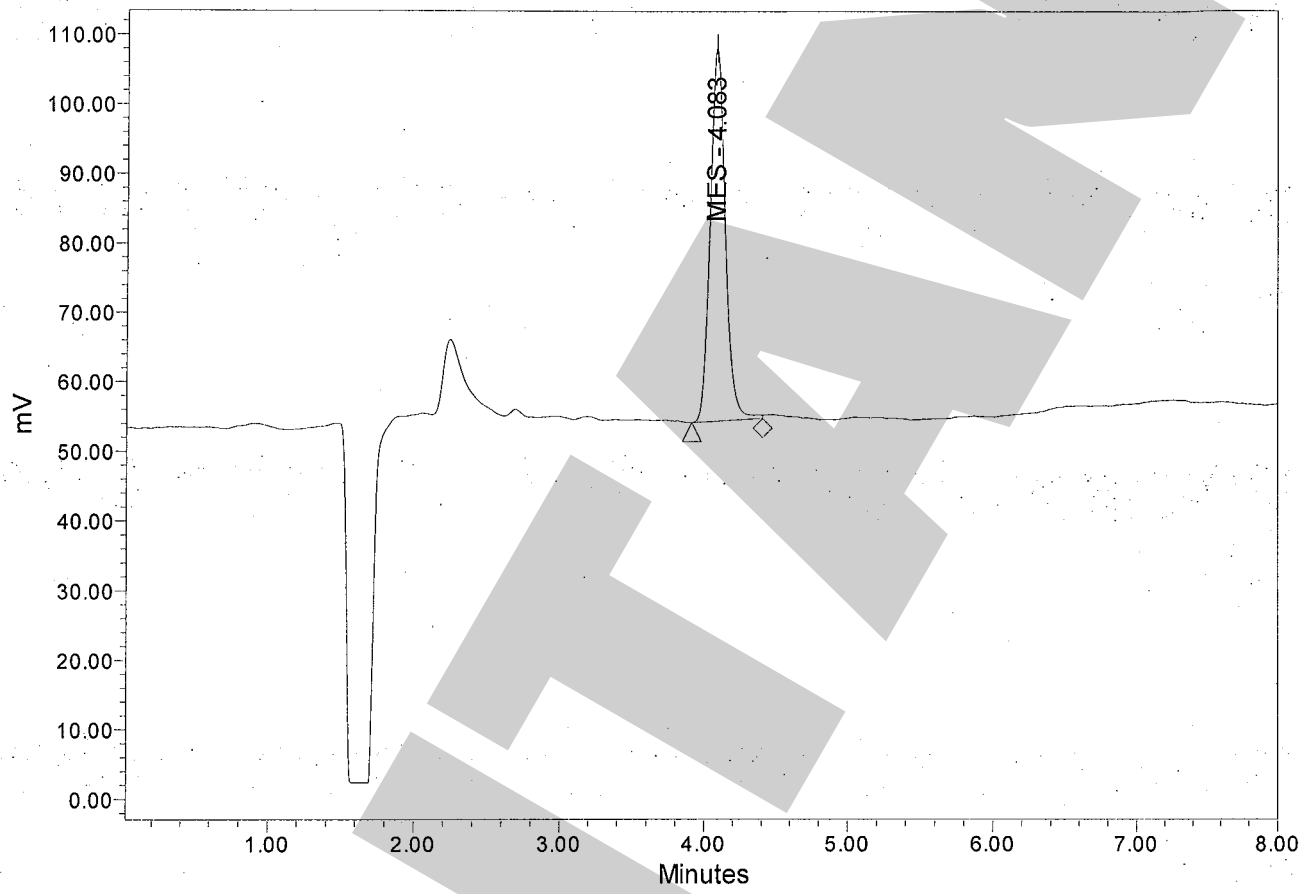
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:33 PM
Date Acquired: 3/13/2014 1:49:42 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: MES 20ug/mL
Injection Id: 4386

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	MES 20ug/mL	4.083	53863	392243	2	100.00

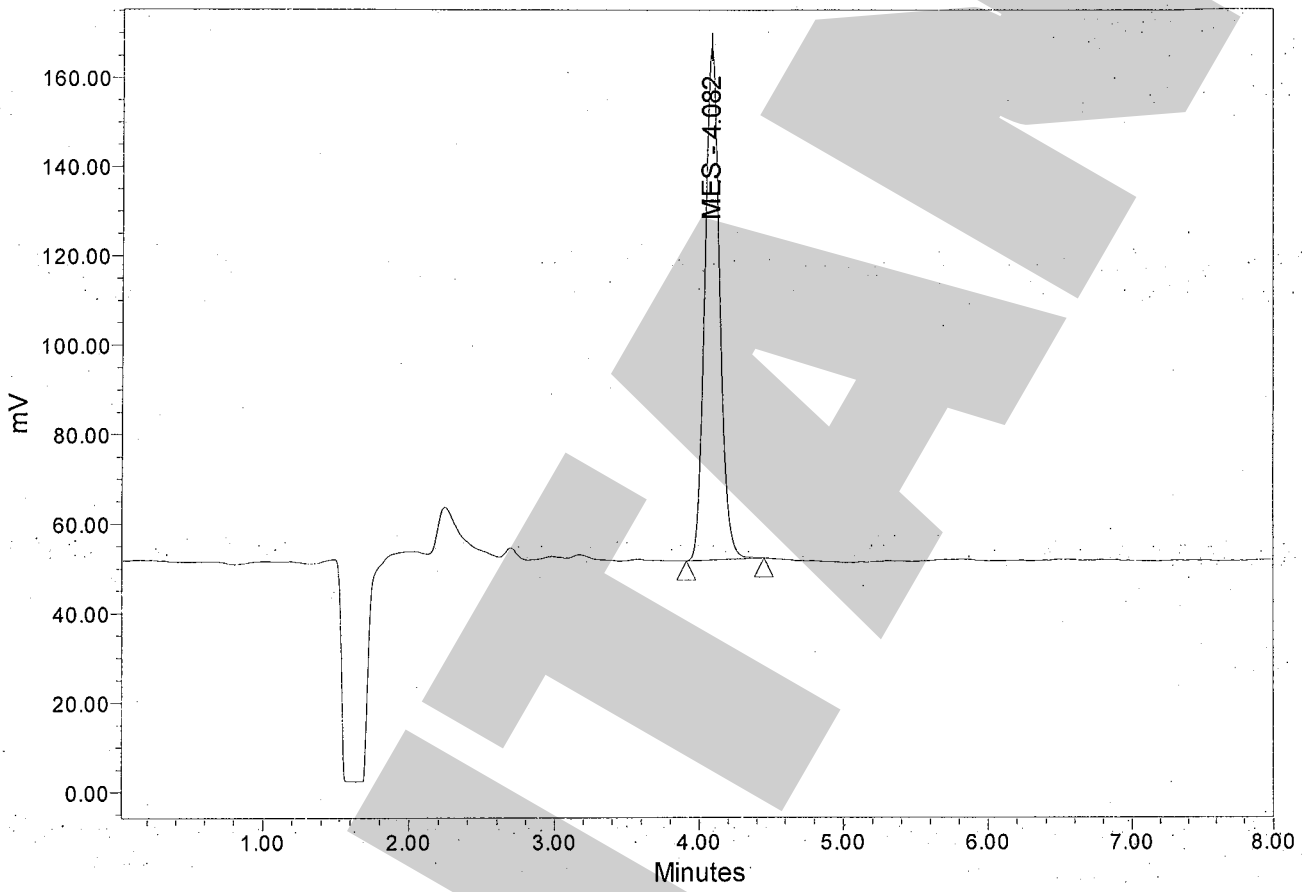
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:33 PM
Date Acquired: 3/13/2014 1:58:34 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: MES 50ug/mL
Injection Id: 4389

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	MES 50ug/mL	4.082	115336	826097	3	100.00

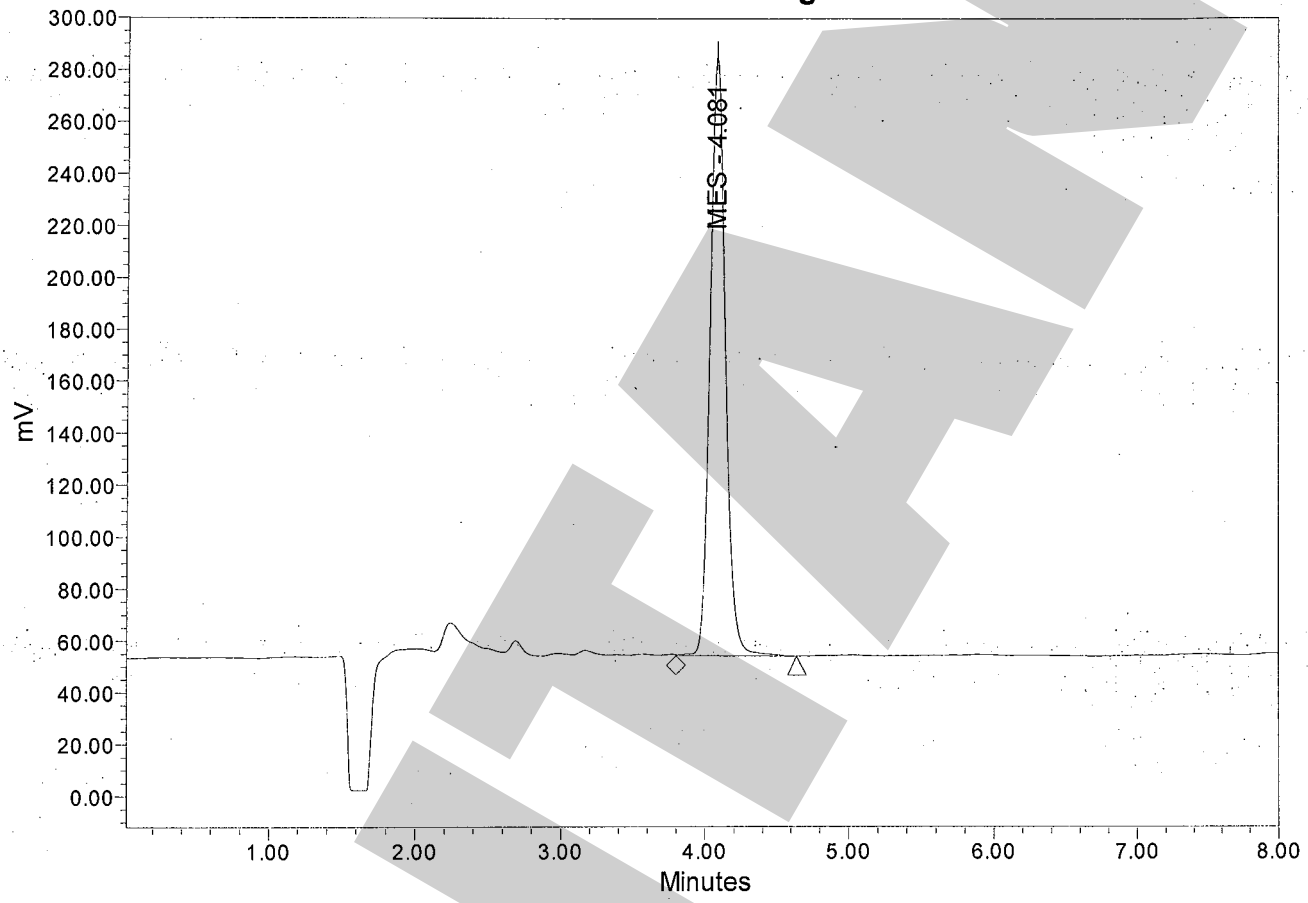
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:34 PM
Date Acquired: 3/13/2014 2:07:23 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: MES 100ug/mL
Injection Id: 4392

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	MES 100ug/mL	4.081	231740	1692004	4	100.00

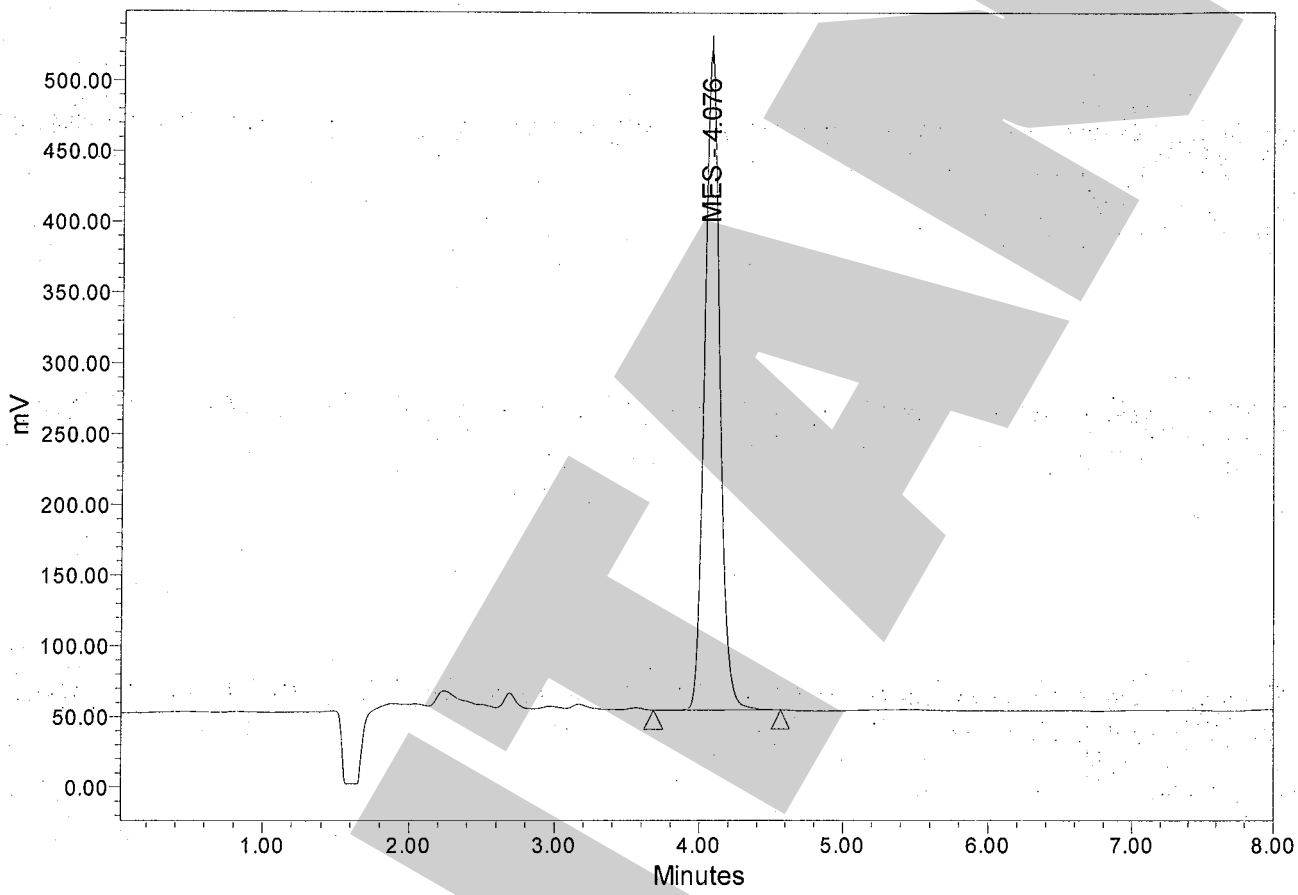
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:35 PM
Date Acquired: 3/13/2014 2:16:14 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: MES 200ug/mL
Injection Id: 4400

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	MES 200ug/mL	4.076	468743	3424237	5	100.00

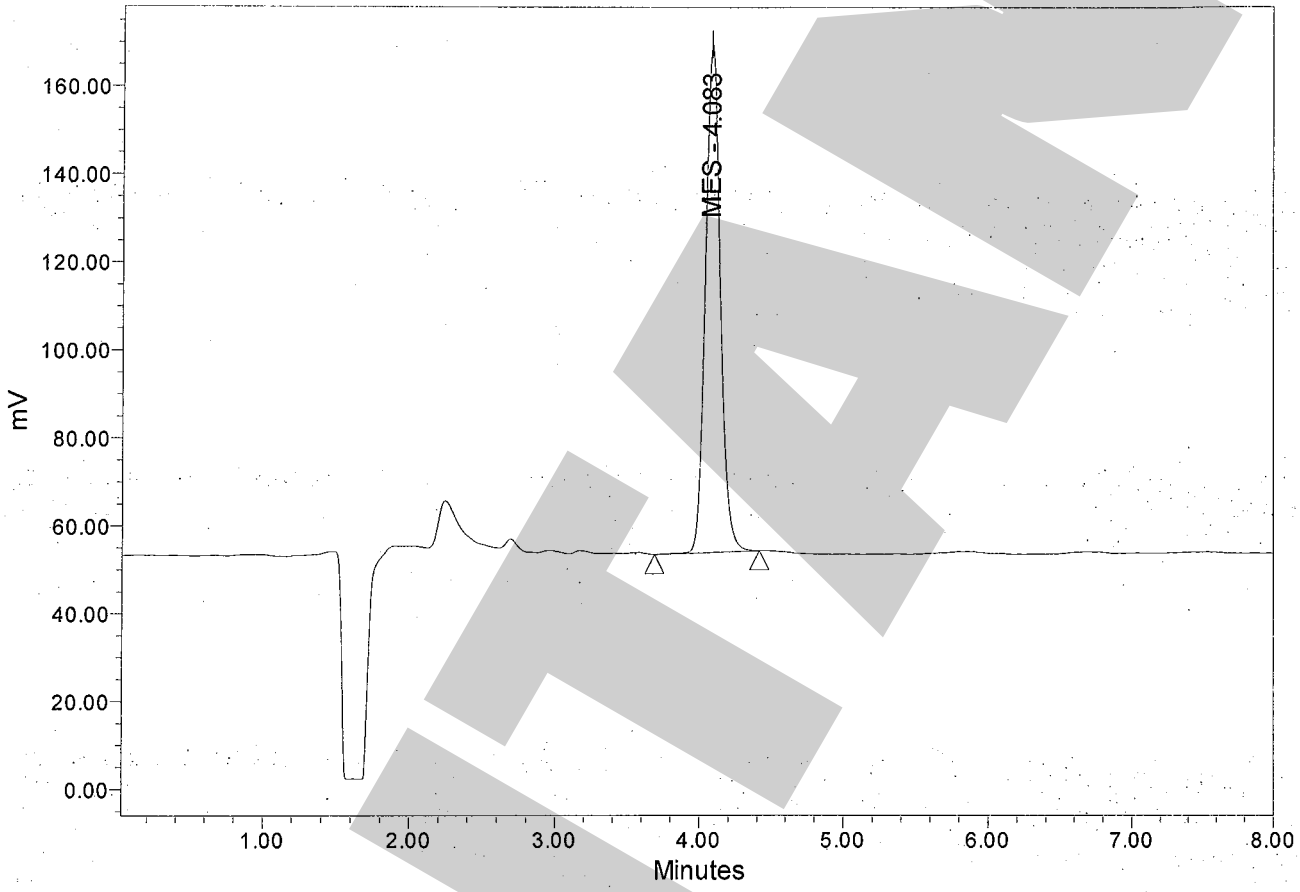
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:35 PM
Date Acquired: 3/13/2014 2:25:08 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: S1 50ug/mL
Injection Id: 4403

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	S1 50ug/mL	4.083	115910	833276	6	100.00

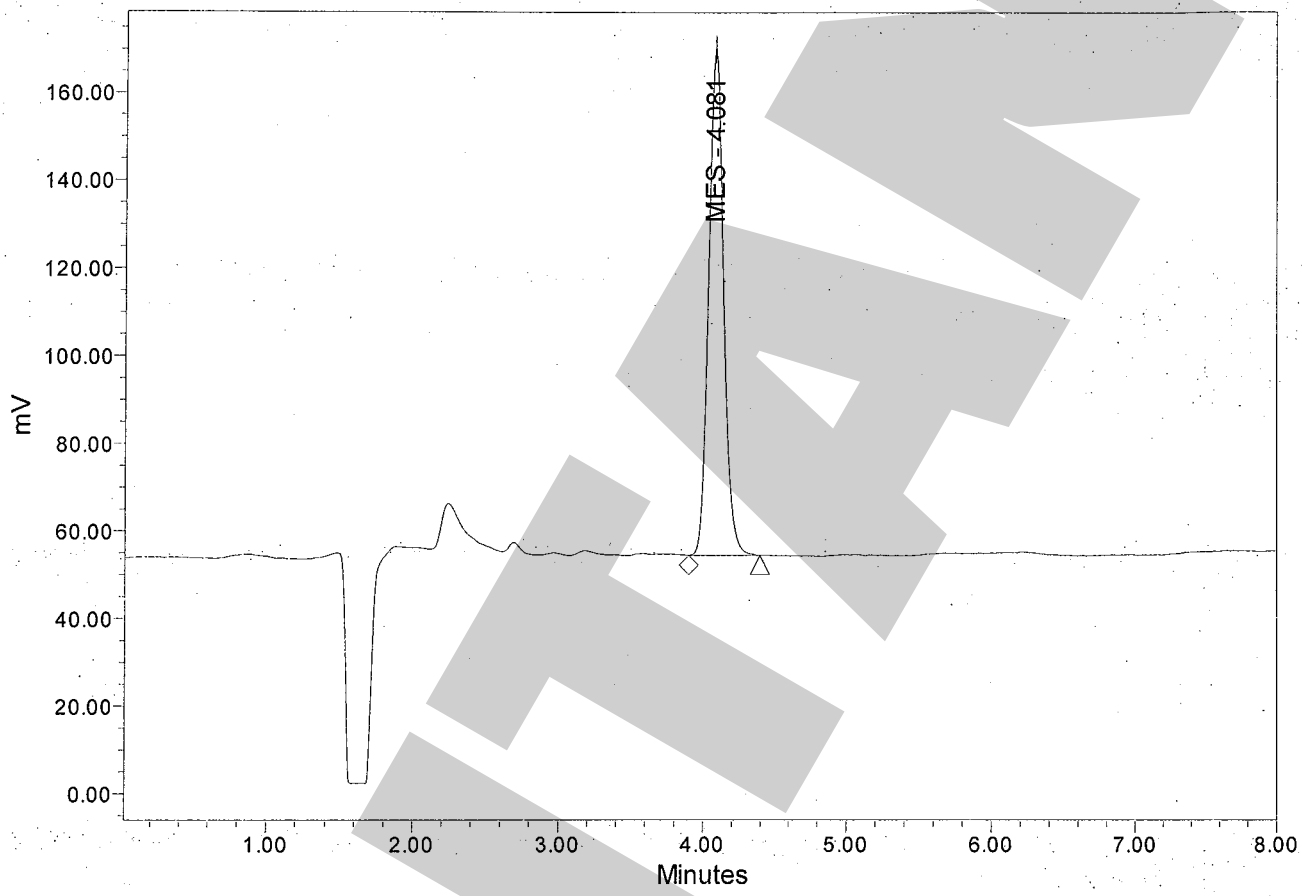
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:36 PM
Date Acquired: 3/13/2014 2:34:01 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: S1 50ug/mL
Injection Id: 4411

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	S1 50ug/mL	4.081	115896	831244	7	100.00

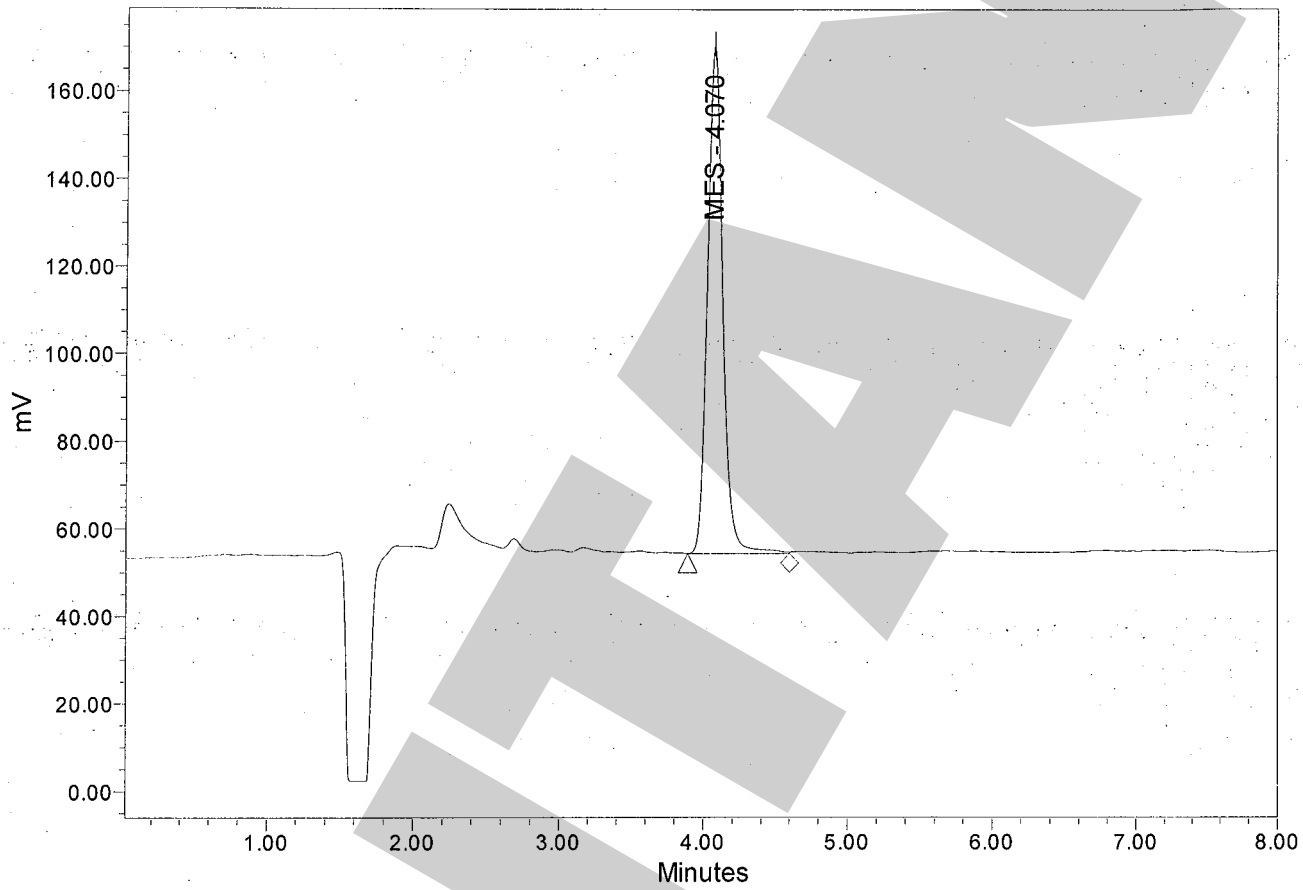
Software Version 4.00

Project: PF14F0002
Compound: MES

Current Date: 3/13/2014
Current Time: 2:58:37 PM
Date Acquired: 3/13/2014 2:42:53 PM
Date Calibrated: 3/13/2014 2:57:48 PM

Analytical Run: AR18
Text: S1 50ug/mL
Injection Id: 4424

Auto-Scaled Chromatogram



	Name	SampleName	RT	Height	Area	Vial	% Area
1	MES	S1 50ug/mL	4.070	116096	851017	8	100.00

Software Version 4.00

AR18 MES

HPLC Condition

Solvent A: Water

Solvent B: Methanol

Mobile Phase: Solvent A:Solvent B (20:80, v/v)

Flow Rate (mL/min): 1.00

Wavelength:200 nm

Column: ZORBAX Eclipse Plus dC18, 150 × 4.6 mm, 5 μm, Agilent

	Calculated Conc.(mg/mL)	Theoretical Content(mg)	Actual Content(mg)
S1-1	24.1	25.0	24.2
S1-2	24.0		
S1-3	24.6		

Sample Handling Procedure:

Weigh 10 tablets 1030.428 mg, then crush into power, weigh average amount103.095 mg into 10 mLMethanol, sonicate for 30 min, then filter, spike 20 uL into 980 uL 50% Methanol to make 50 ug/mL solution, then injection 20 uL.