

## Supplemental Information for

### Original article

# An optimized derivative of an endogenous CXCR4 antagonist prevents atopic dermatitis and airway inflammation

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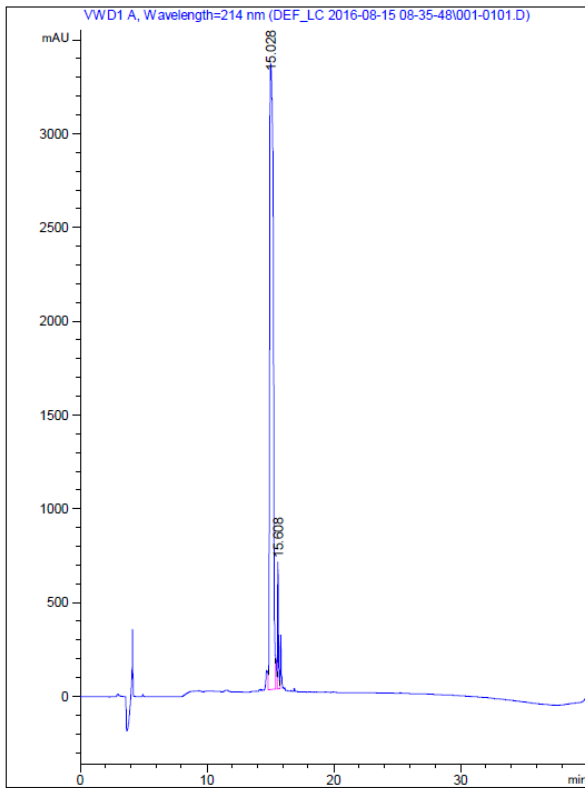
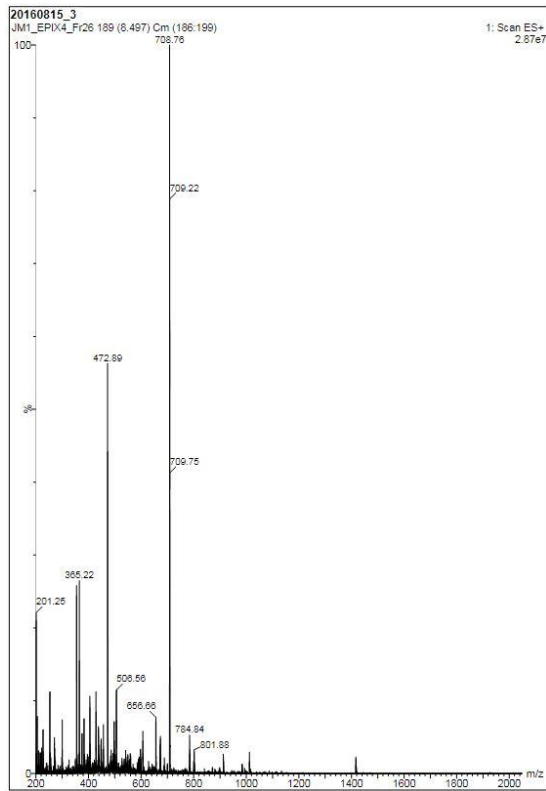
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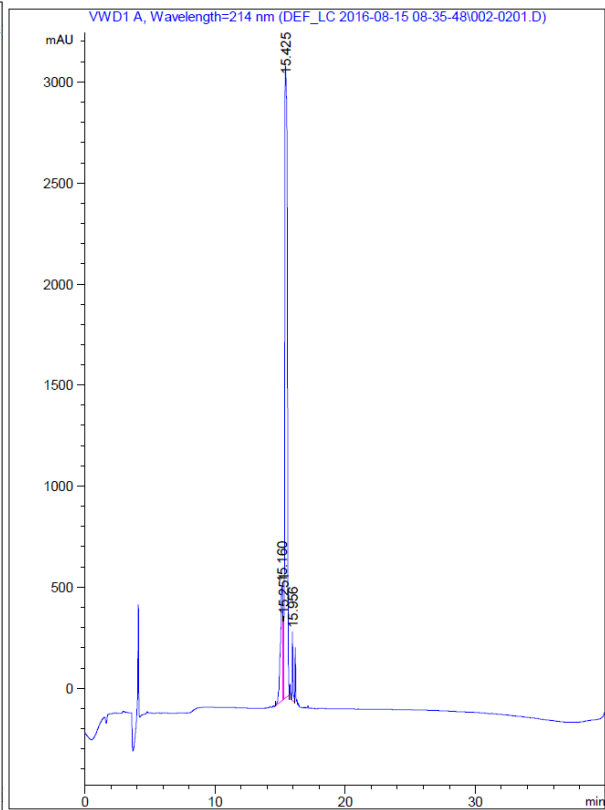
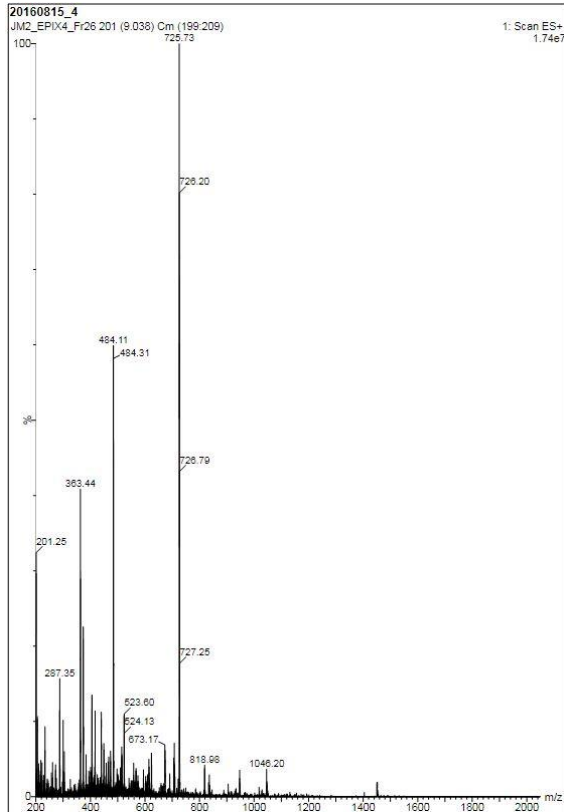
**Table S1** Summary of peptide purities.

Name (EPI-X4)	Sequence	Expected MW	Detected MW	Yield (%)	Purity (%)	Retention time (min)
WSC 02	IVRWSKKVPCVS	1401.73				
JM #1	ILRWSKKVPCVS	1415.77	1416.44	33.63	90.61	14.90
JM #2	IFRWSKKVPCVS	1449.78	1450.00	10.55	79.95	15.43
JM #3	IVRWSRKVPCVS	1429.75	1430.44	11.55	93.99	14.78
JM #4	IVRWSHKVPCVS	1410.71	1411.36	10.79	86.19	14.73
JM #5	IVRWSKKLPCVS	1415.77	1416.51	22.48	97.23	15.23
JM #6	IVRWSKKIPCVS	1415.77	1416.51	8.58	90.76	15.08
JM #7	IVRWSKKFPCVS	1449.78	1450.50	30.09	100.00	15.51
JM #8	ILRWSRKVPCVS	1443.78	1444.36	22.68	100.00	15.33
JM #9	ILRWSHKVPCVS	1424.73	1425.16	38.10	100.00	15.32
JM #10	IFRWSRKVPCVS	1477.80	1478.68	13.05	84.14	15.66
JM #11	IFRWSHKVPCVS	1458.75	1459.41	15.55	89.92	16.18
JM #13	ILRWSRKMPCVS	1475.84	1476.04	20.93	100.00	15.43
JM #18	ILRWSRKMPCLS	1489.80	1490.16	22.92	99.22	16.01
JM #19	ILRWSRKMPCFS	1523.89	1524.02	25.68	86.18	16.42
JM #20	ILRWSRKMPCMS	1507.91	1507.88	18.41	84.59	15.72
JM #21	ILRWSRKLPCVS	1457.81	1458.09	24.52	93.14	15.89
JM #23	ILRWSRKVPSVS	1427.71	1428.84	19.38	98.49	14.79

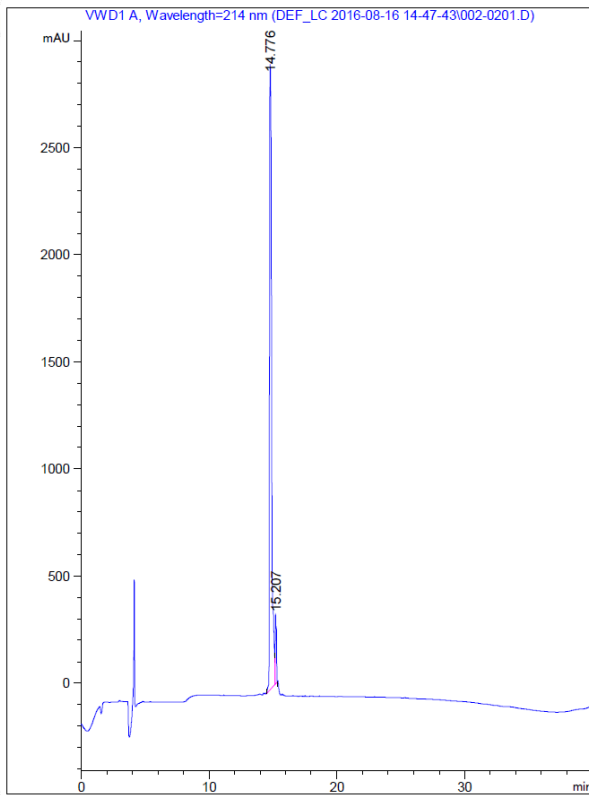
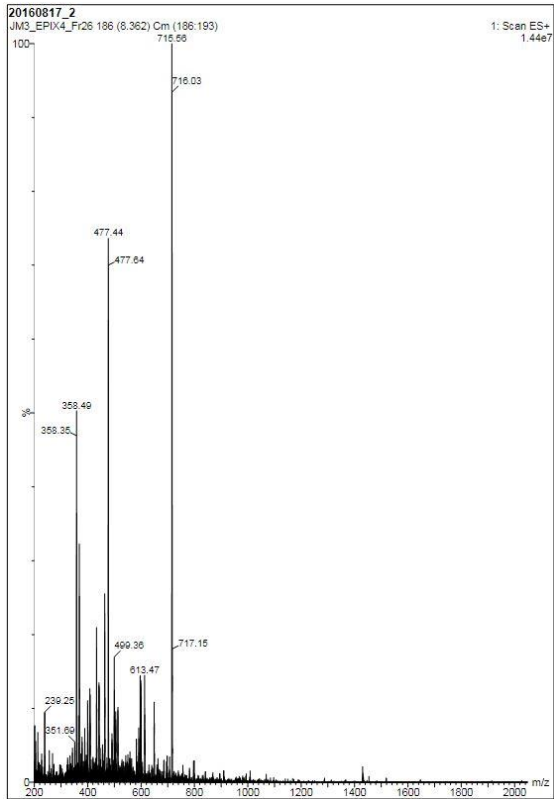
# EPI-X4 JM#1



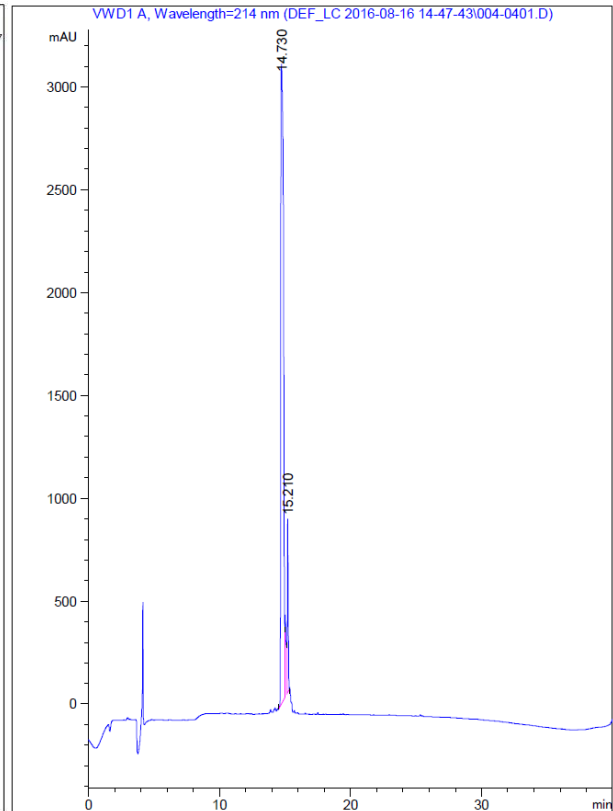
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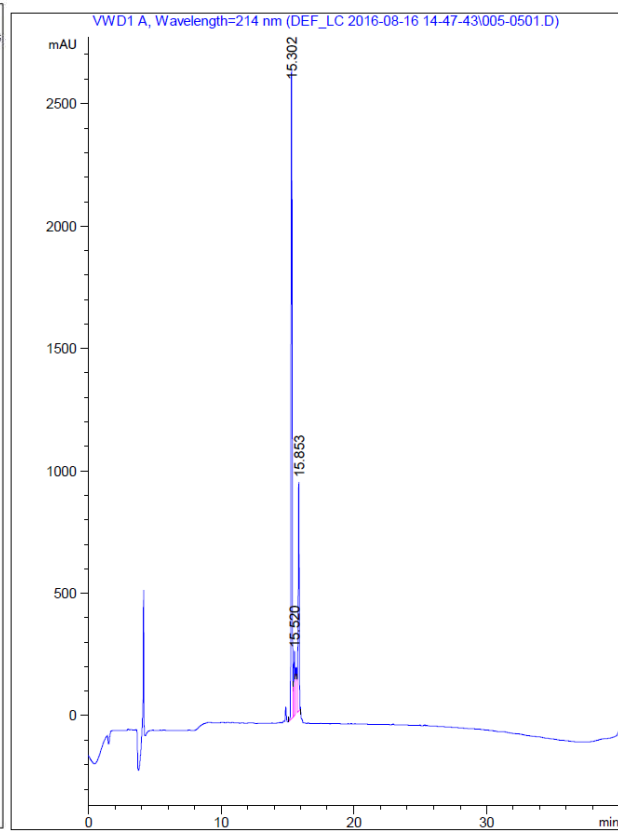
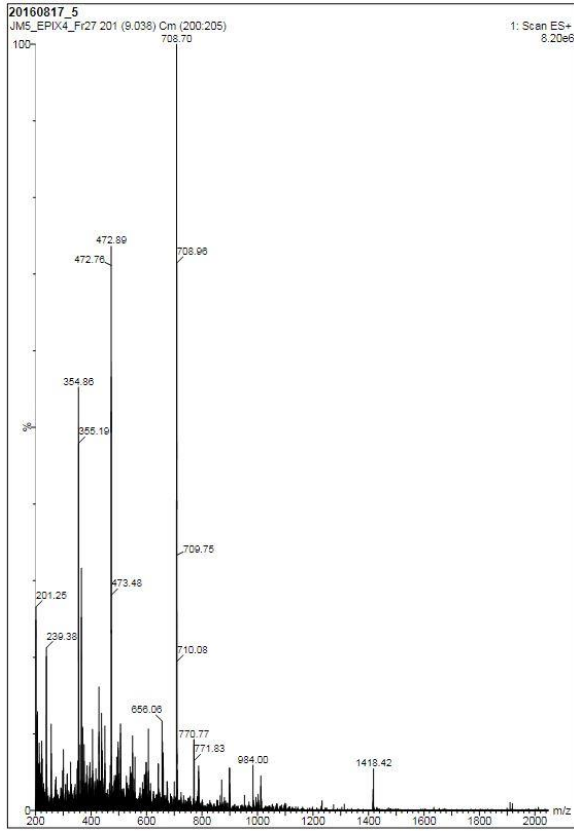
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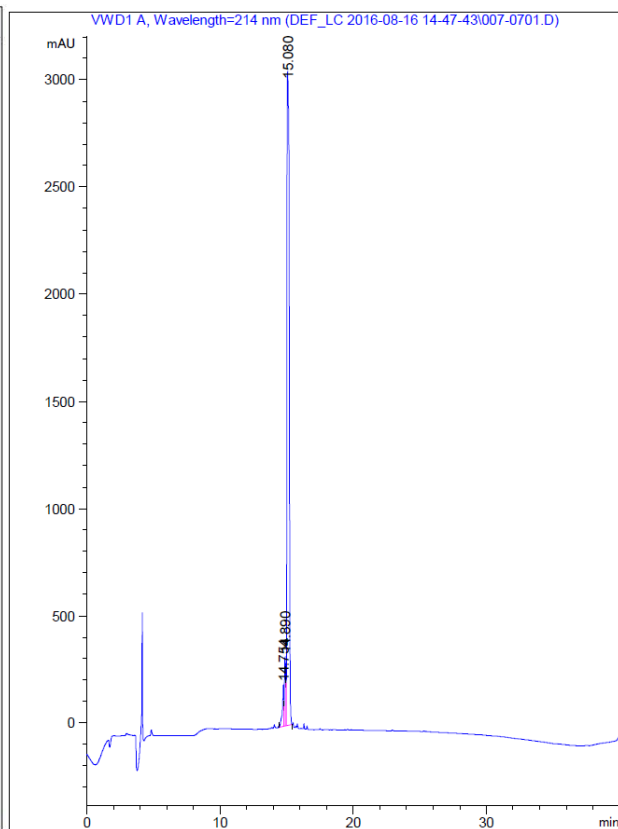
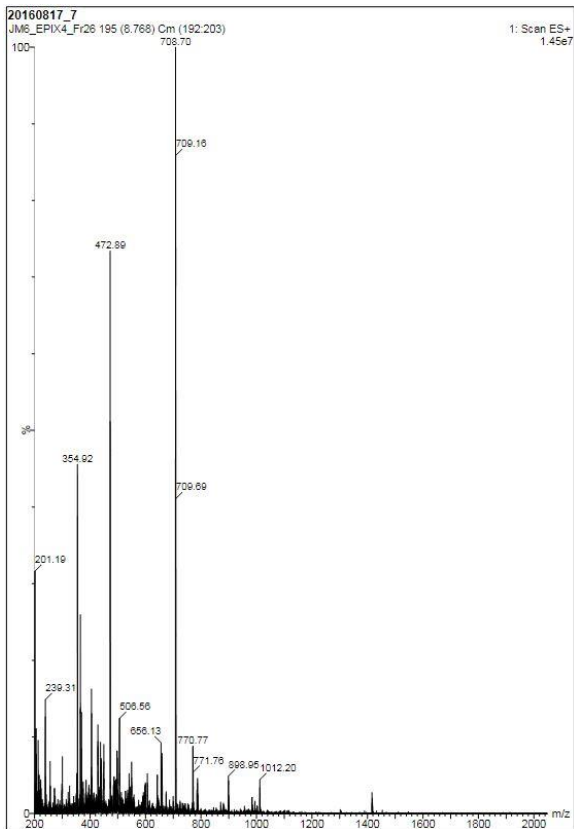
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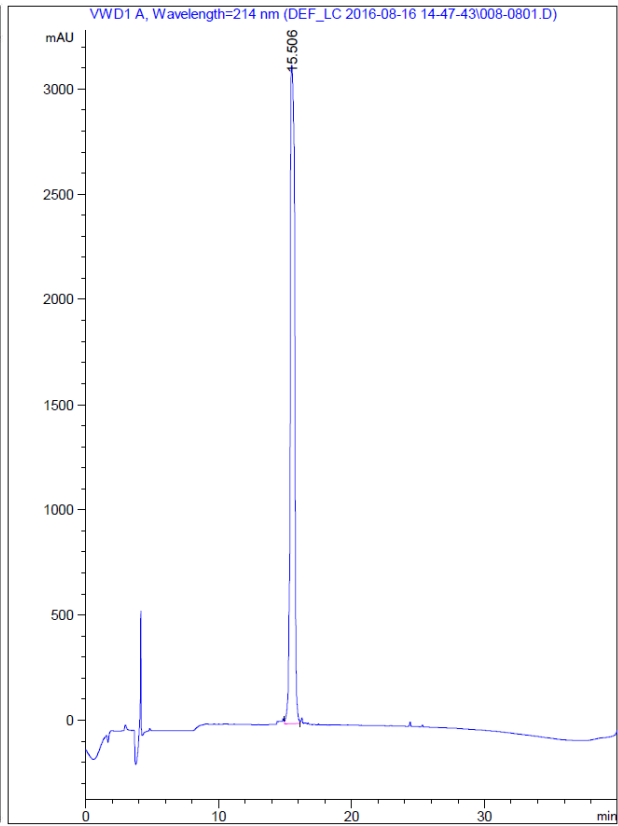
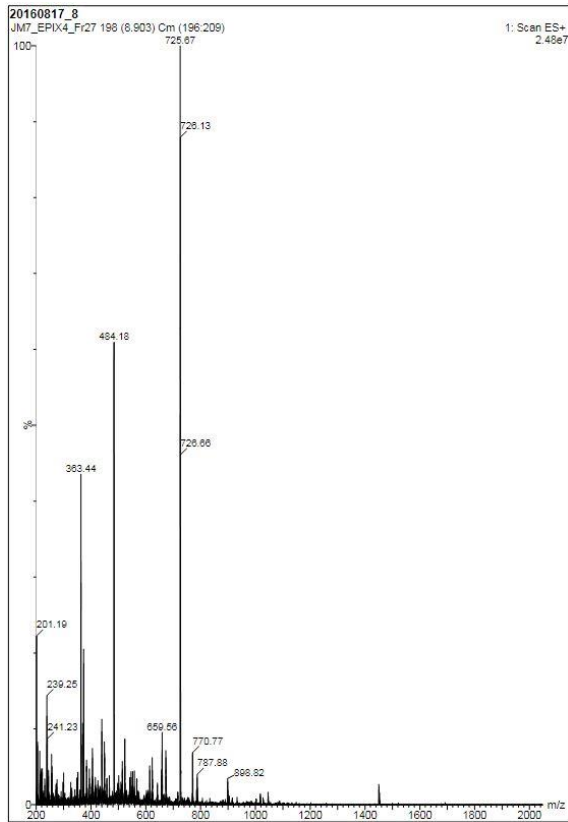
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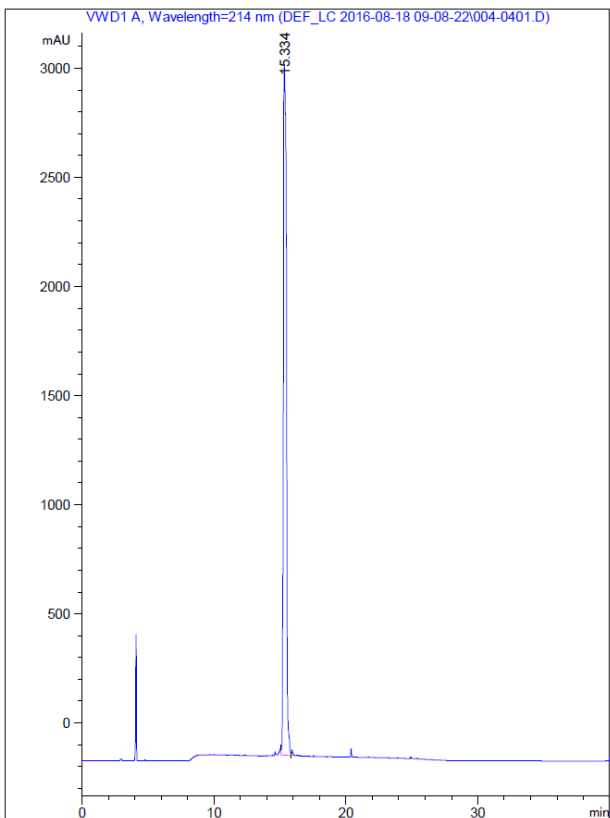
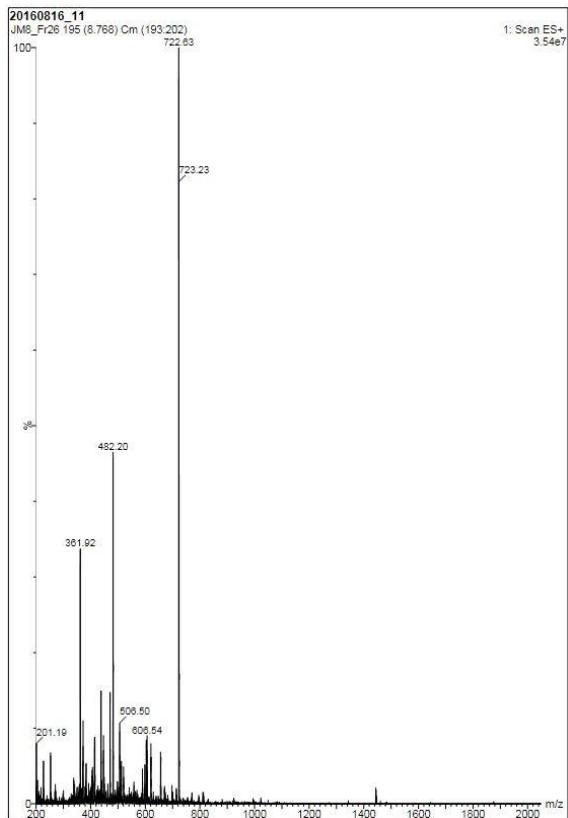
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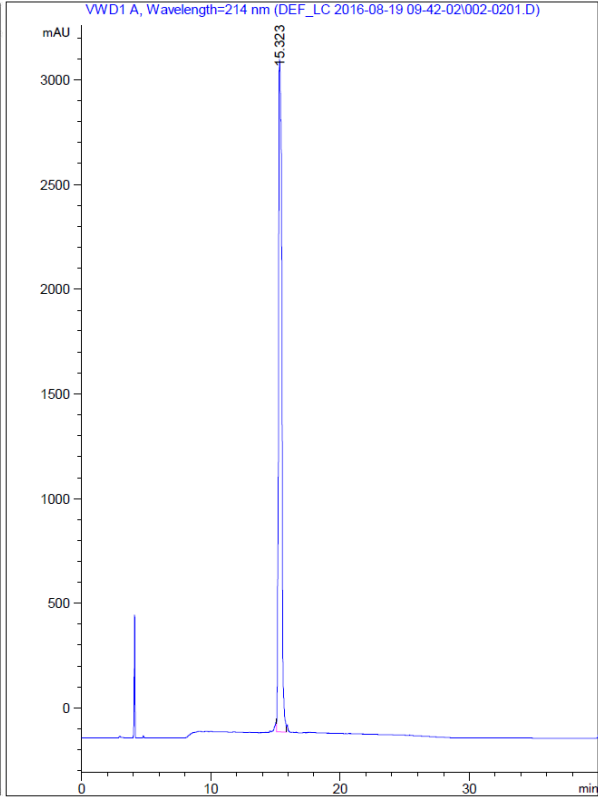
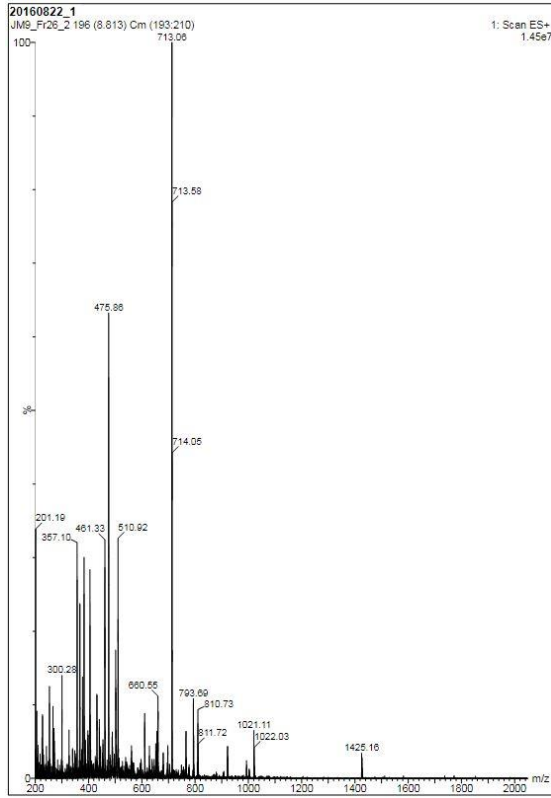
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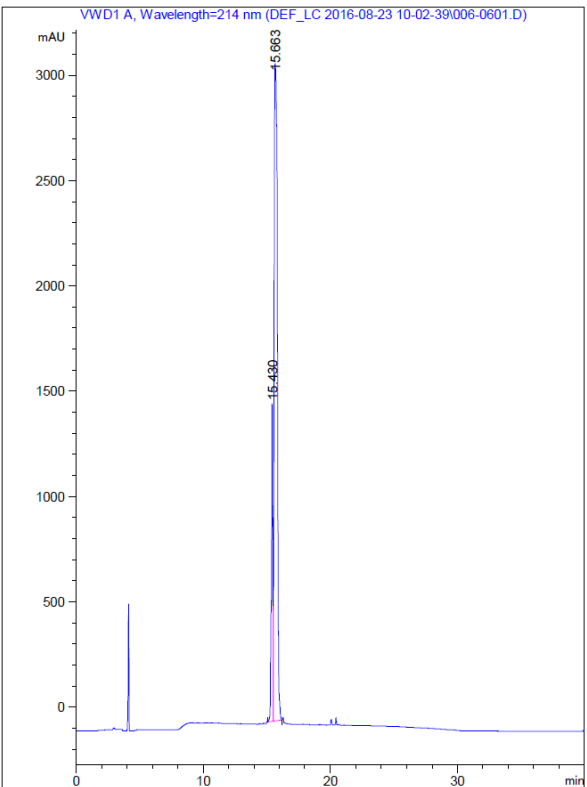
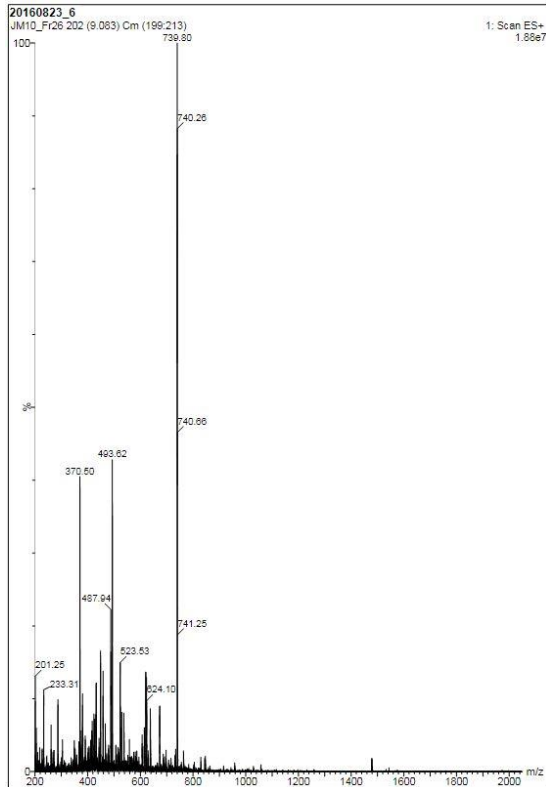
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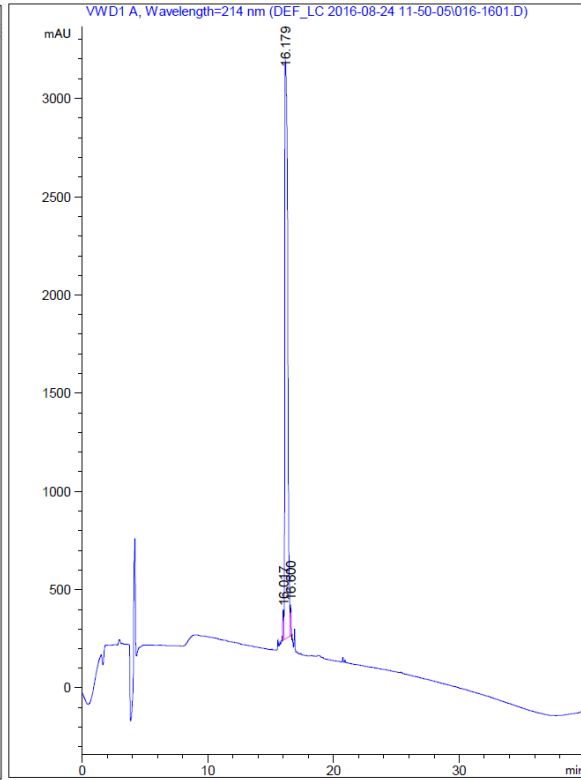
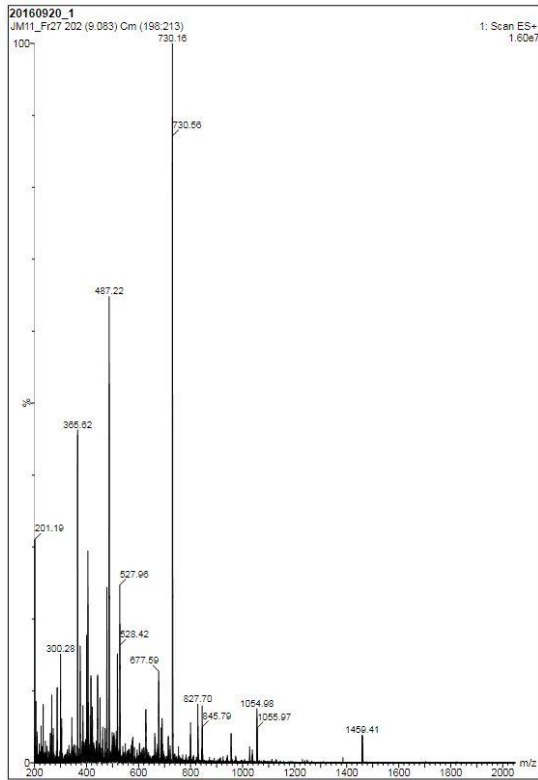
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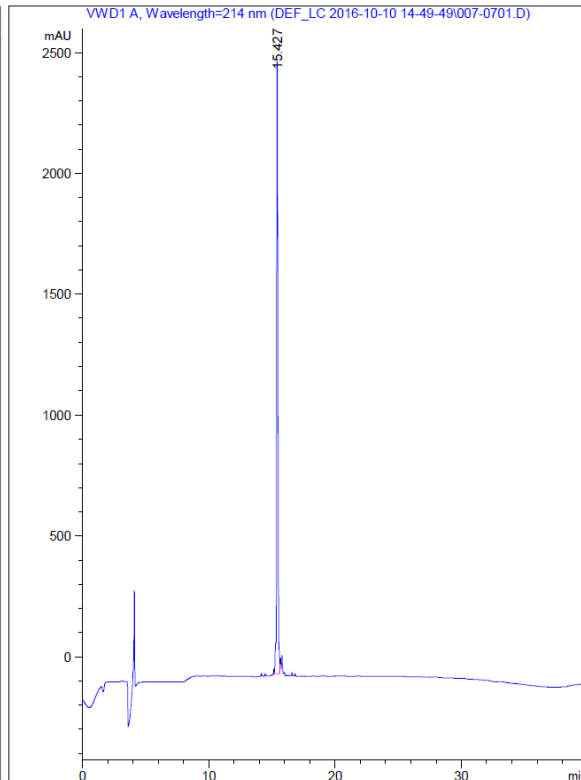
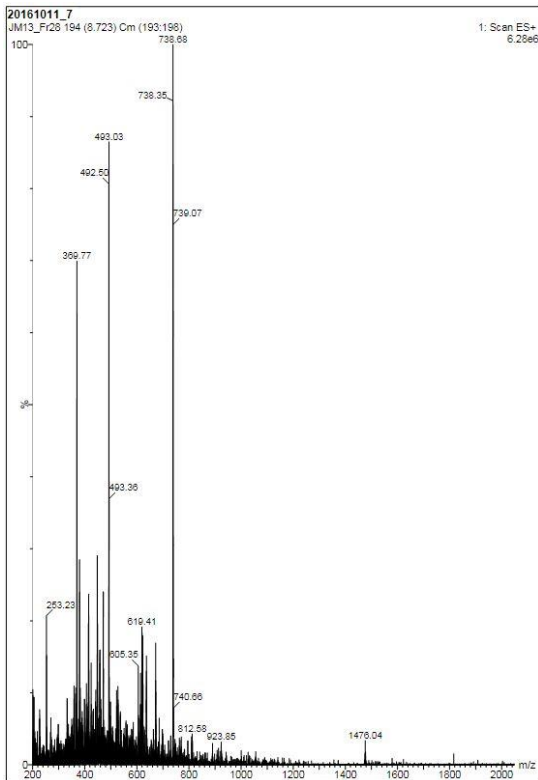
# EPI-X4 JM#10



# EPI-X4 JM#11

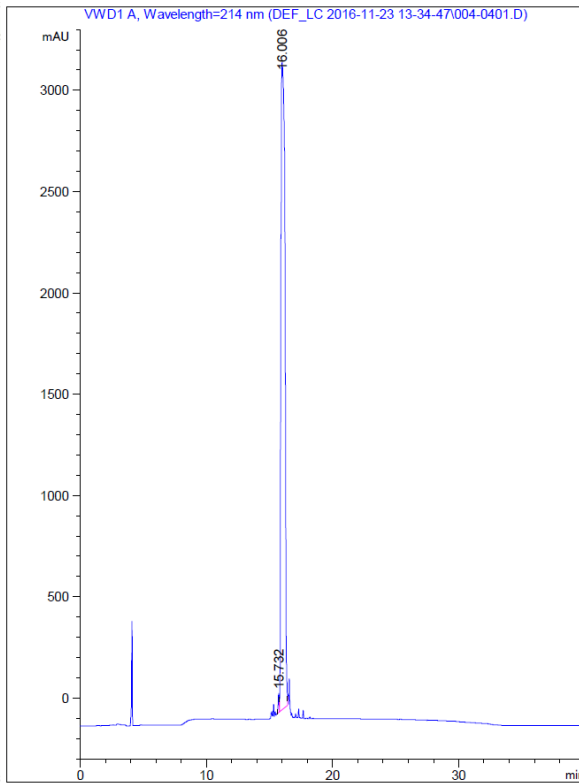
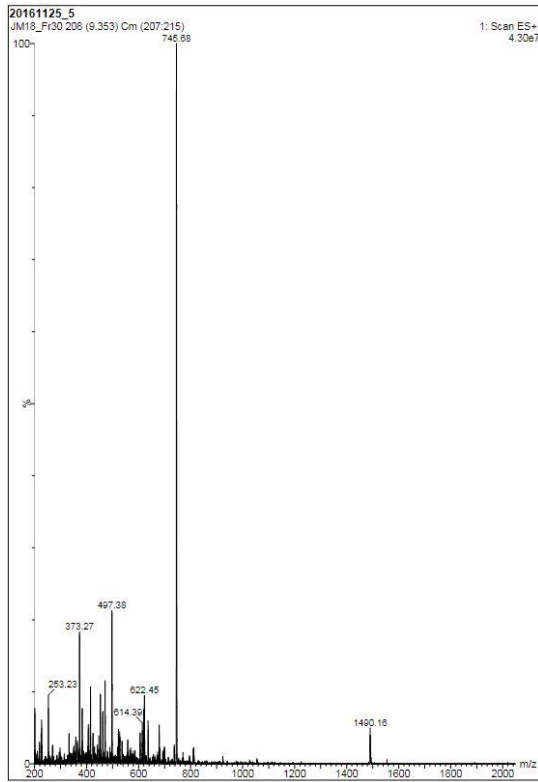


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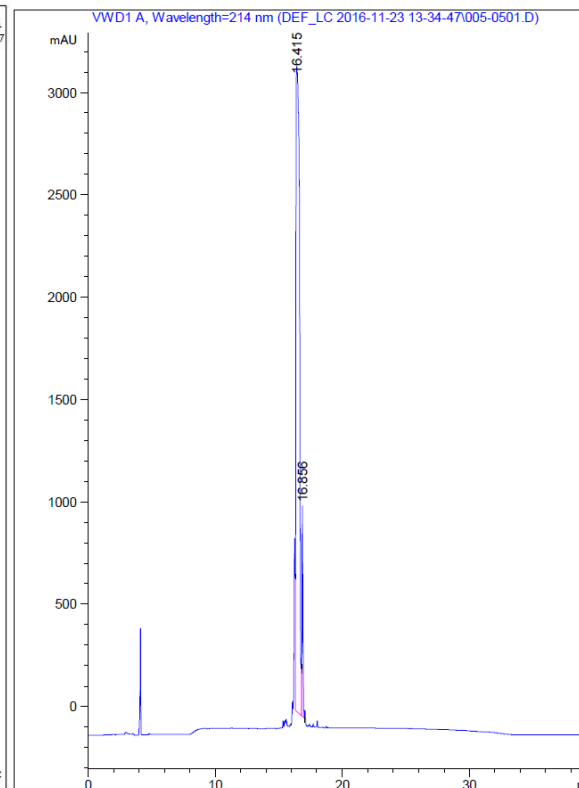
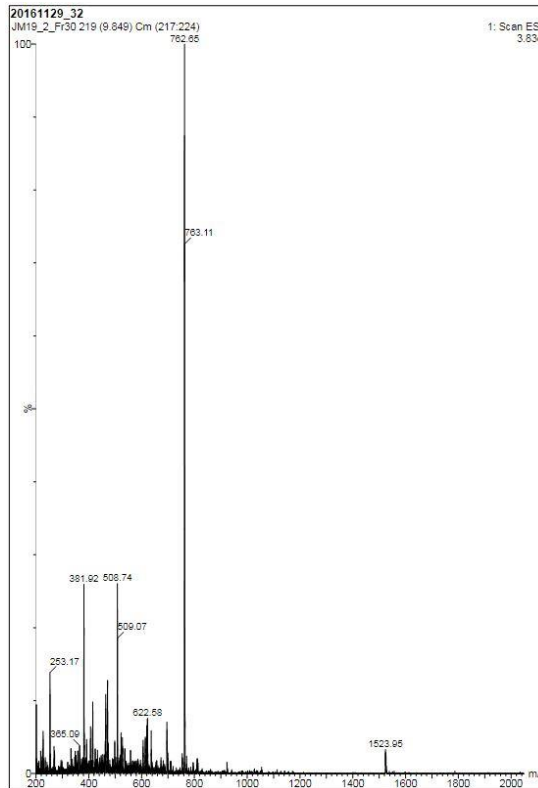




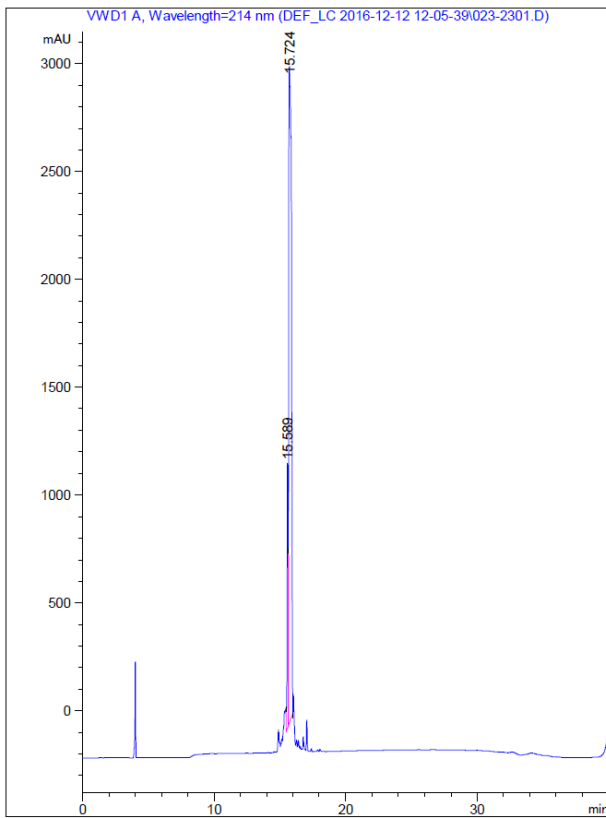
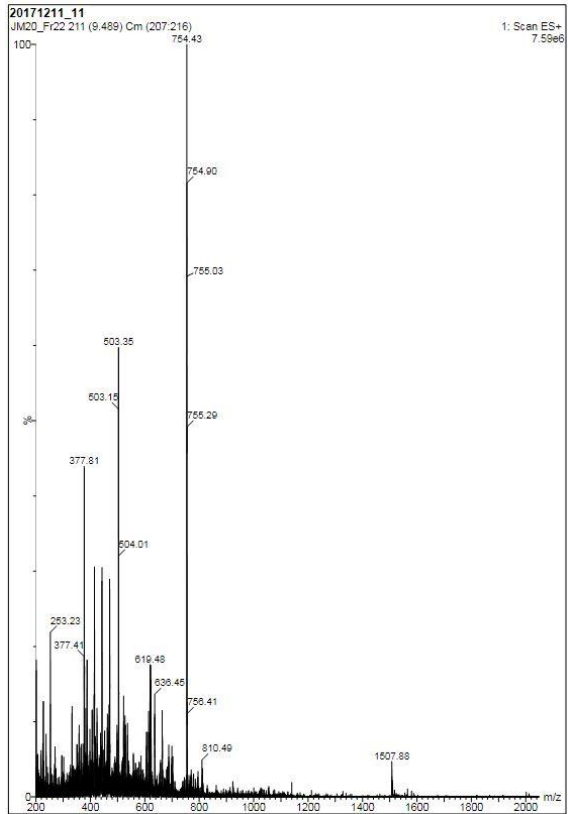
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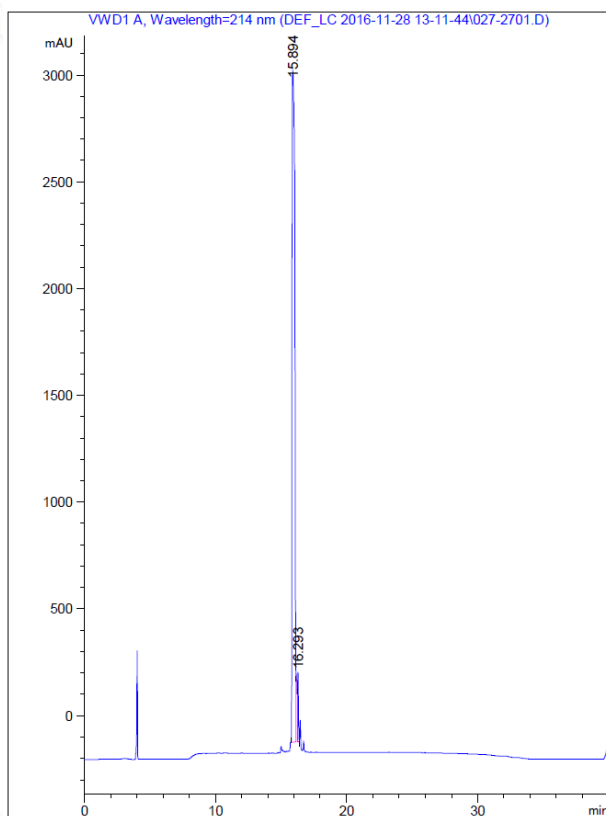
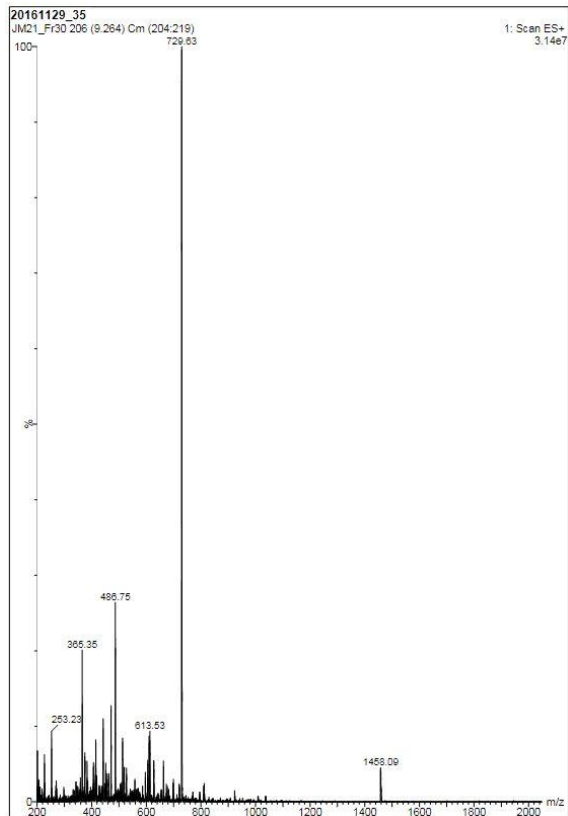
# EPI-X4 JM#19



# EPI-X4 JM#20



# EPI-X4 JM#21



# EPI-X4 JM#23

