Electronic Supplementary Material (ESI) for RSC Advances.

Interference-free analysis of aflatoxin B_1 and G_1 in various foodstuffs using trilinear component modeling of excitation-emission matrix fluorescence data enhanced through photochemical derivatization

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The following pages are the original SIM quantitative reports exported from the Agilent MassHunter quantitative analysis software (version B.04.00)

(1) Quantitative Analysis Calibration Report

(2) Quantitative Analysis Summary Report

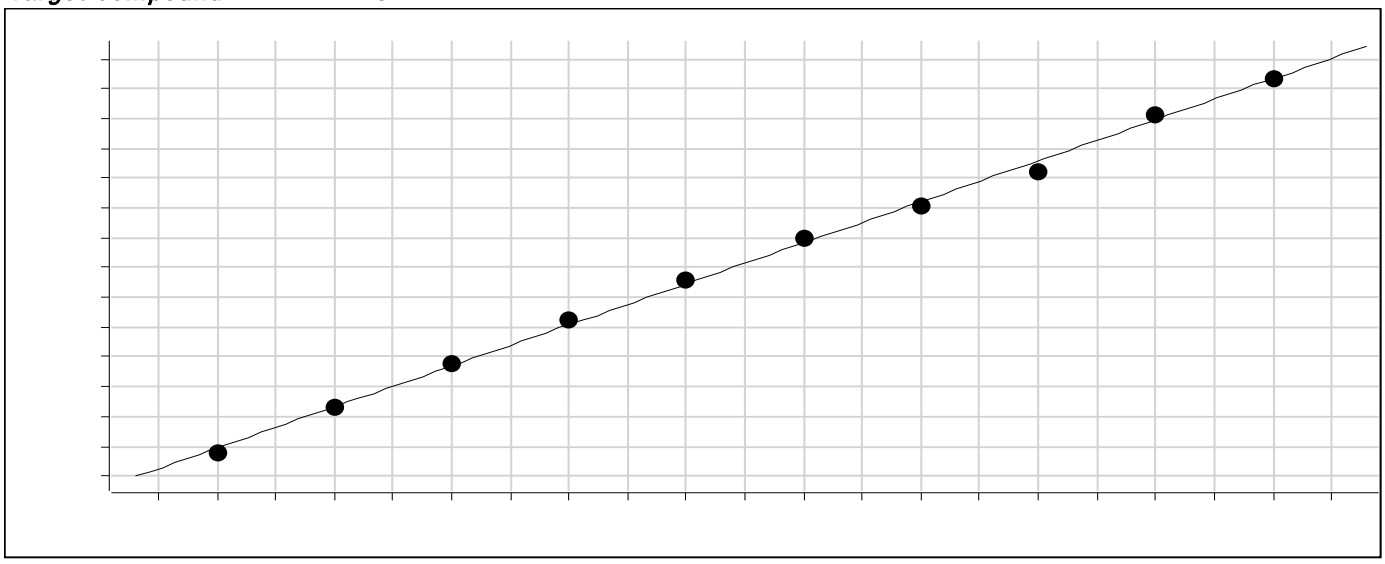
Quantitative Analysis Calibration Report

Batch Info

Batch Data Path	D:\MassHunter\Data\LZ\20150204\QuantResults\20120204.batch.bin		
Analysis Time	2/5/2015 2:12 PM	**Analyst Name**	Administrator
Report Time	2/5/2015 2:16 PM	**Reporter Name**	Administrator
Last Calib Update	2/5/2015 2:12 PM	**Batch State**	Processed

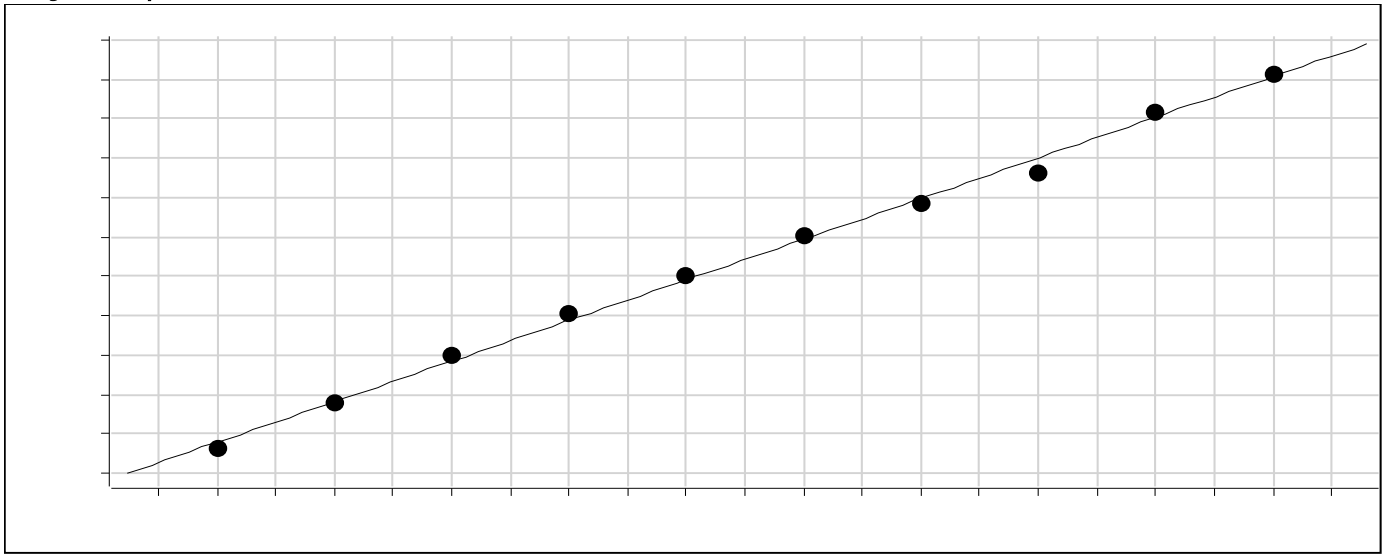
Calibration Info

Target Compound *AFG1*



Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
CAL01.d	Calibration	L1	☑	1525	2.0000	762.4780
CAL10.d	Calibration	L10	☑	26703	38.0000	702.7125
CAL02.d	Calibration	L2	☑	4585	6.0000	764.1510
CAL03.d	Calibration	L3	☑	7580	10.0000	757.9663
CAL04.d	Calibration	L4	☑	10427	14.0000	744.8138
CAL05.d	Calibration	L5	☑	13157	18.0000	730.9602
CAL06.d	Calibration	L6	☑	15924	22.0000	723.8216
CAL07.d	Calibration	L7	☑	18154	26.0000	698.2424
CAL08.d	Calibration	L8	☑	20439	30.0000	681.3008
CAL09.d	Calibration	L9	☑	24243	34.0000	713.0232

Target Compound *AFB1*



Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
CAL01.d	Calibration	L1	☑	3110	2.0000	1555.2176
CAL10.d	Calibration	L10	☑	50665	38.0000	1333.2985
CAL02.d	Calibration	L2	☑	8953	6.0000	1492.1587
CAL03.d	Calibration	L3	☑	14865	10.0000	1486.5253

Quantitative Analysis Calibration Report

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
CAL04.d	Calibration	L4	☑	20188	14.0000	1442.0197
CAL05.d	Calibration	L5	☑	24962	18.0000	1386.7868
CAL06.d	Calibration	L6	☑	30167	22.0000	1371.2331
CAL07.d	Calibration	L7	☑	34306	26.0000	1319.4491
CAL08.d	Calibration	L8	☑	38116	30.0000	1270.5386
CAL09.d	Calibration	L9	☑	45868	34.0000	1349.0724

Quantitative Analysis Summary Report

Batch Info

Batch Data Path	D:\MassHunter\Data\LZ\20150204\QuantResults\20120204.batch.bin		
Analysis Time	2/5/2015 2:12 PM	**Analyst Name**	Administrator
Report Time	2/5/2015 2:16 PM	**Reporter Name**	Administrator
Last Calib Update	2/5/2015 2:12 PM	**Batch State**	Processed

Sequence Table

Data File	Sample Name	Position	Volume	Level	Sample Type	Acq Method File
CAL01.d	Sample1	P1-A1	-1	L1	Calibration	AFT20150202.m
CAL02.d	Sample2	P1-A2	-1	L2	Calibration	AFT20150202.m
CAL03.d	Sample3	P1-A3	-1	L3	Calibration	AFT20150202.m
CAL04.d	Sample4	P1-A4	-1	L4	Calibration	AFT20150202.m
CAL05.d	Sample5	P1-A5	-1	L5	Calibration	AFT20150202.m
CAL06.d	Sample6	P1-A6	-1	L6	Calibration	AFT20150202.m
CAL07.d	Sample7	P1-A7	-1	L7	Calibration	AFT20150202.m
CAL08.d	Sample8	P1-A8	-1	L8	Calibration	AFT20150202.m
CAL09.d	Sample9	P1-A9	-1	L9	Calibration	AFT20150202.m
CAL10.d	Sample10	P1-B1	-1	L10	Calibration	AFT20150202.m
YM01.d	Sample15	P1-B6	-1		Sample	AFT20150202.m
YM02.d	Sample16	P1-B7	-1		Sample	AFT20150202.m
YM03.d	Sample17	P1-B8	-1		Sample	AFT20150202.m
MF01.d	Sample18	P1-B9	-1		Sample	AFT20150202.m
MF02.d	Sample19	P1-C1	-1		Sample	AFT20150202.m
MF03.d	Sample20	P1-C2	-1		Sample	AFT20150202.m
FM01.d	Sample21	P1-C3	-1		Sample	AFT20150202.m
FM02.d	Sample22	P1-C4	-1		Sample	AFT20150202.m
FM03.d	Sample23	P1-C5	-1		Sample	AFT20150202.m
DY01.d	Sample24	P1-C6	-1		Sample	AFT20150202.m
DY02.d	Sample25	P1-C7	-1		Sample	AFT20150202.m
DY03.d	Sample26	P1-C8	-1		Sample	AFT20150202.m

Quantitation Results

AFG1

Data File	Compound	Sample Type	RT	Response	Final Conc	Exp Conc	Accuracy
CAL01.d	AFG1	Calibration	4.100	1525	1.4850	2.0000	74.25
CAL02.d	AFG1	Calibration	4.100	4585	5.9289	6.0000	98.82
CAL03.d	AFG1	Calibration	4.090	7580	10.2782	10.0000	102.78
CAL04.d	AFG1	Calibration	4.090	10427	14.4140	14.0000	102.96
CAL05.d	AFG1	Calibration	4.080	13157	18.3786	18.0000	102.10
CAL06.d	AFG1	Calibration	4.080	15924	22.3968	22.0000	101.80
CAL07.d	AFG1	Calibration	4.080	18154	25.6357	26.0000	98.60

Quantitative Analysis Summary Report

Data File	Compound	Sample Type	RT	Response	Final Conc	Exp Conc	Accuracy
CAL08.d	AFG1	Calibration	4.070	20439	28.9538	30.0000	96.51
CAL09.d	AFG1	Calibration	4.060	24243	34.4780	34.0000	101.41
CAL10.d	AFG1	Calibration	4.070	26703	38.0511	38.0000	100.13
YM01.d	AFG1	Sample	4.070	458	0.0000		
YM02.d	AFG1	Sample	4.070	6121	8.1596		
YM03.d	AFG1	Sample	4.070	9926	13.6855		
MF01.d	AFG1	Sample	4.050	439	0.0000		
MF02.d	AFG1	Sample	4.080	2558	2.9857		
MF03.d	AFG1	Sample	4.080	3705	4.6504		
FM01.d	AFG1	Sample	3.382	131	0.0000		
FM02.d	AFG1	Sample	3.291	98	0.0000		
FM03.d	AFG1	Sample	3.291	151	0.0000		
DY01.d	AFG1	Sample	4.698	983	0.6979		
DY02.d	AFG1	Sample	4.080	1668	1.6927		
DY03.d	AFG1	Sample	4.090	2413	2.7750		

AFB1

Data File	Compound	Sample Type	RT	Response	Final Conc	Exp Conc	Accuracy
CAL01.d	AFB1	Calibration	4.754	3110	1.3618	2.0000	68.09
CAL02.d	AFB1	Calibration	4.754	8953	5.8972	6.0000	98.29
CAL03.d	AFB1	Calibration	4.743	14865	10.4868	10.0000	104.87
CAL04.d	AFB1	Calibration	4.743	20188	14.6189	14.0000	104.42
CAL05.d	AFB1	Calibration	4.733	24962	18.3248	18.0000	101.80
CAL06.d	AFB1	Calibration	4.733	30167	22.3653	22.0000	101.66
CAL07.d	AFB1	Calibration	4.723	34306	25.5779	26.0000	98.38
CAL08.d	AFB1	Calibration	4.723	38116	28.5359	30.0000	95.12
CAL09.d	AFB1	Calibration	4.713	45868	34.5538	34.0000	101.63
CAL10.d	AFB1	Calibration	4.723	50665	38.2775	38.0000	100.73
YM01.d	AFB1	Sample	5.078	223	0.0000		
YM02.d	AFB1	Sample	4.723	5567	3.2685		
YM03.d	AFB1	Sample	4.733	12243	8.4513		
MF01.d	AFB1	Sample	5.027	125	0.0000		
MF02.d	AFB1	Sample	4.733	3584	1.7291		
MF03.d	AFB1	Sample	4.723	9929	6.6549		
FM01.d	AFB1	Sample	5.007	327	0.0000		
FM02.d	AFB1	Sample	4.754	122	0.0000		
FM03.d	AFB1	Sample	4.764	179	0.0000		
DY01.d	AFB1	Sample	4.855	148	0.0000		
DY02.d	AFB1	Sample	4.733	3472	1.6424		
DY03.d	AFB1	Sample	4.733	4800	2.6735		