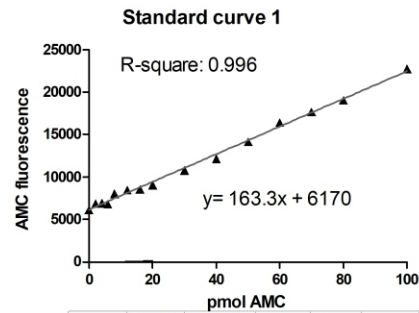
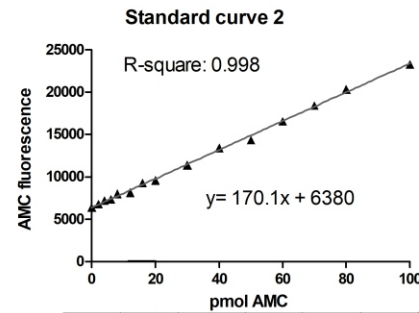


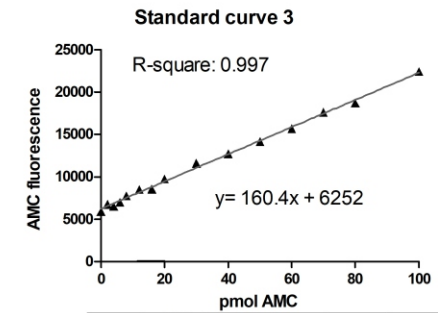
Supplementary Figure S1



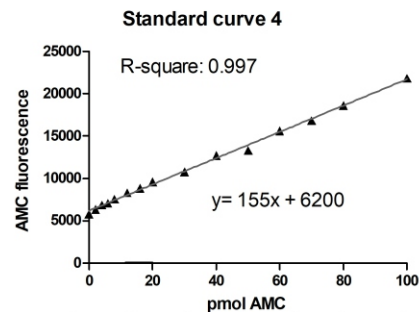
	pmol AMC in serum matrix	Fluorescence	pmol AMC	% of expected value	% deviation
S1	0	6138	-0.2267018		
S2	2	6891	4.3869861	219.35	105.08
S3	4	6943	4.705594	117.64	17.64
S4	6	6814	3.9152013	65.25	15.71
S5	8	8006	11.341217	141.77	41.77
S6	12	8466	14.03713	116.98	16.98
S7	16	8544	14.515042	90.72	-9.28
S8	20	9042	17.566326	87.83	-12.17
S9	30	10825	28.490901	94.97	-5.03
S10	40	12153	36.627658	91.57	-8.43
S11	50	14125	48.710251	97.42	-2.58
S12	60	16427	62.814779	104.69	4.69
S13	70	17686	70.528767	100.76	0.76
S14	80	19027	78.745175	98.43	-1.57
S15	100	22770	101.67882	101.68	1.68



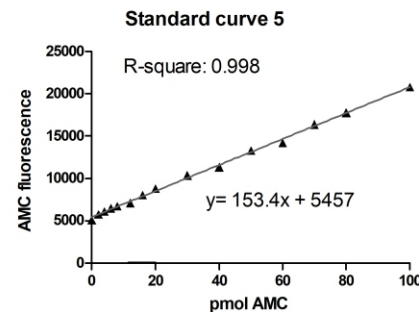
	pmol AMC in serum matrix	Fluorescence	pmol AMC	% of expected value	% deviation
S1	0	6347	-0.2235294		
S2	2	6805	2.4709824	123.53	73.53
S3	4	7199	4.7882329	119.71	19.71
S4	6	7325	5.52941176	92.16	-7.84
S5	8	7984	9.40588235	117.57	17.57
S6	12	8134	10.2882353	85.74	-14.26
S7	16	9255	16.8823529	105.51	5.51
S8	20	9603	18.9294118	94.65	-5.35
S9	30	11412	29.5705882	98.57	-1.43
S10	40	13424	41.4058824	103.51	3.51
S11	50	14367	46.9529412	93.91	-6.09
S12	60	16558	59.8411765	99.74	-0.26
S13	70	18411	70.7411765	101.06	1.06
S14	80	20328	82.0176471	102.52	2.52
S15	100	23254	99.2294118	99.23	-0.77



	pmol AMC in serum matrix	Fluorescence	pmol AMC	% of expected value	% deviation
S1	0	5879	-2.7358491		
S2	2	6744	2.7040252	135.22	65.22
S3	4	6518	1.28301887	32.28	
S4	6	6995	4.28301887	71.38	-28.62
S5	8	7743	8.98742138	112.34	12.34
S6	12	8532	13.9496855	116.25	16.25
S7	16	8570	14.1886792	88.68	-11.32
S8	20	9753	21.6289308	108.14	8.14
S9	30	11588	33.1698113	110.57	10.57
S10	40	12736	40.327044	100.82	0.82
S11	50	14147	49.2641509	98.93	-1.07
S12	60	15702	59.0440252	98.41	-1.59
S13	70	17638	71.2201258	101.74	1.74
S14	80	18897	77.8805031	97.35	-2.65
S15	100	22423	101.314465	101.31	1.31



	pmol AMC in serum matrix	Fluorescence	pmol AMC	% of expected value	% deviation
S1	0	5803	-3.0064935		
S2	2	6143	0.5	25.00	75.00
S3	4	6875	3.9545455	98.86	-1.14
S4	6	7064	5.1818182	86.36	-13.64
S5	8	7582	8.5454545	106.82	6.82
S6	12	8305	13.24026	110.34	10.34
S7	16	8874	16.935065	105.84	5.84
S8	20	9599	21.640857	108.21	8.21
S9	30	10784	29.337662	97.79	-2.21
S10	40	12744	42.064935	105.16	5.16
S11	50	13292	45.623377	91.25	-8.75
S12	60	15643	60.88961	101.48	1.48
S13	70	16852	68.74026	98.20	-1.80
S14	80	18606	80.12987	100.16	0.16
S15	100	21847	101.17532	101.18	1.18



	pmol AMC in serum matrix	Fluorescence	pmol AMC	% of expected value	% deviation
S1	0	5081	-2.8815789		
S2	2	5799	1.57894737	78.95	-21.05
S3	4	6121	3.96052632	99.01	-0.99
S4	6	6501	6.46052632	107.68	7.68
S5	8	6713	7.85526316	98.19	-1.81
S6	12	7111	10.4736842	87.28	-12.72
S7	16	8025	16.4868421	103.04	3.04
S8	20	8806	21.625	108.13	8.13
S9	30	10366	31.8881579	106.29	6.29
S10	40	11327	38.2105263	95.53	-4.47
S11	50	13308	51.2434211	102.49	2.49
S12	60	14206	57.1513158	95.25	-4.75
S13	70	16366	71.3618421	101.95	1.95
S14	80	17760	80.5328947	100.67	0.67
S15	100	20771	100.342105	100.34	0.34

Supplementary Figure S1: Linearity and lower limit of quantification (LLOQ). AMC-standards were pipetted as outlined in Table 1. Raw AMC fluorescence (in artificial units) was related to the corresponding AMC amount in pmol. The slope, y-intercept and, R-square were calculated by linear regression analysis. The data for the independent experiments used for Figure 1 are shown. Concentrations of the calibration standards were back-calculated. Green numbers indicate back-calculation of the standards within the requested limits ($\pm 15\%$ of the nominal value, for LLOQ $\pm 20\%$), yellow colors refer to back calculations close, but outside the requested range, and red colors indicate values where back-calculation was inaccurate. LLOQ of each standard curve was determined to range between 2 and 6 pmol (= uppermost green AMC standard) and was averaged to obtain the mean LLOQ (i.e. 4.8 pmol AMC).

Supplementary Table S1: Coefficients of variation (CV) of the individual measurements of within-run and between-run precision.

Within-run precision (Data from Figure 3)		Between-run precision healthy donors (Data from Figure 4A)		Between-run precision Patients (Data from Figure 4B)	
Sample ID	CV (%)	Sample ID	CV (%)	Sample ID	CV (%)
Healthy donor 2	3.73	Healthy donor 1	8.21	Patient 1	9.81
Healthy donor 3	3.22	Healthy donor 2	6.98	Patient 2	48.94
Healthy donor 5	1.06	Healthy donor 3	9.25	Patient 3	17.63
Healthy donor 6	3.57	Healthy donor 4	4.93	Patient 4	105.82
Healthy donor 8	1.81	Healthy donor 5	6.54	Patient 5	52.14
Healthy donor 10	4.45	Healthy donor 6	10.09	Patient 6	26.19
Patient 1	6.83	Healthy donor 8	12.76	Patient 7	22.31
Patient 7	3.68	Healthy donor 10	7.23	Patient 8	65.24
Patient 8	5.22			Patient 9	128.58
Patient 14	5.98			Patient 10	19.74
Patient 18	5.16			Patient 11	23.66
Patient 19	14.78			Patient 12	86.78
				Patient 13	32.81
				Patient 14	66.66
				Patient 15	62.11
				Patient 16	43.14
				Patient 17	65.04
				Patient 18	37.23
				Patient 19	47.03
				Patient 20	41.37