

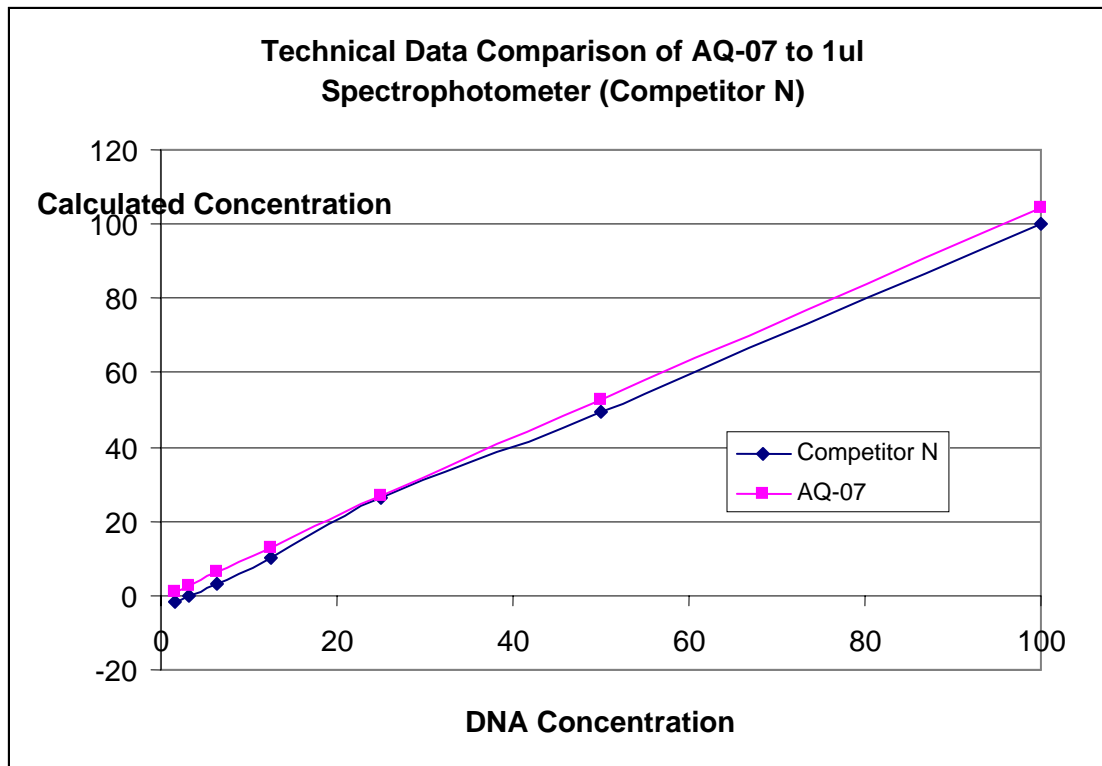


## Technical Data Comparison of AQ-07 to 1ul Spectrophotometer (Competitor N)

### Test Setup:

- 1) Calf Thymus DNA was diluted to 100ug/ml in 1xTNE buffer
- 2) 100mg/ml standard was diluted 1:2 with 1xTNE buffer to create a serial dilution
- 3) Competitor N spectrophotometer was setup according to manufacture specifications
- 4) AQ-07 DNA Photometer was setup according to AmpliQuant Specifications
- 5) A 2ul sample of 1xTNE was used to blank Competitor N.
- 6) A 200ul sample of 1xTNE was used to blank AQ-07.
- 7) Serial dilutions of Calf Thymus DNA were measured using 2ul samples on Competitor N.
- 8) Serial dilutions of Calf Thymus DNA were measured using 200ul samples in small volume cuvette (AmpliQuant Part # 007ZZ001) on the AQ-07.

### Results:



## AmpliQuant Technical Bulletin

Graph 1: Comparison of Competitor N to AQ-07 using Serial Dilution of Calf Thymus DNA

Comparison of Competitor N to AQ-07 Serial Dilution of Calf Thymus DNA		
DNA (ug/ml)	Competitor N	AQ-07
100	100.15	104.25
50	49.5	52.85
25	26.05	26.7
12.5	10.4	13
6.25	3.4	6.5
3.125	0.15	2.7
1.5625	-1.6	1

Table 1. Raw Data Comparison of Competitor N to AQ-07 using Serial Dilution of Calf Thymus DNA

Purity Comparison of Competitor N to AQ-07 Serial Dilution of Calf Thymus DNA		
DNA (ug/ml)	Competitor N	AQ-07
100	1.8444	2.0955
50	1.8505	2.0249
25	1.6971	2.0075
12.5	1.7627	2.0472
6.25	1.1724	2.0313
3.125	0.1304	2.4545

Table 1. Raw Data Comparison of DNA Purity Measurement of Competitor N to AQ-07 using Serial Dilution of Calf Thymus DNA

**Analysis:**

The AQ-07 performed in an equivalent fashion to Competitor N in reading a dilution series of Calf Thymus DNA. At the low end of the dilution series, the AQ-07 was able to more accurately measure samples of lower DNA concentration. A comparison of the R-square shows that AQ-07 was more linear through the dilution series with an R-square of 0.9999 versus 0.9989. Additionally, the AQ-07 was able to show more accurate purity measurements for the protein free calf thymus sample.



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AmpliQuant AQ-07  
 DNA Photometer  
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