



A Two-Color TaqMan Assay on the LightCycler 1.2



In collaboration with
Biosearch Technologies



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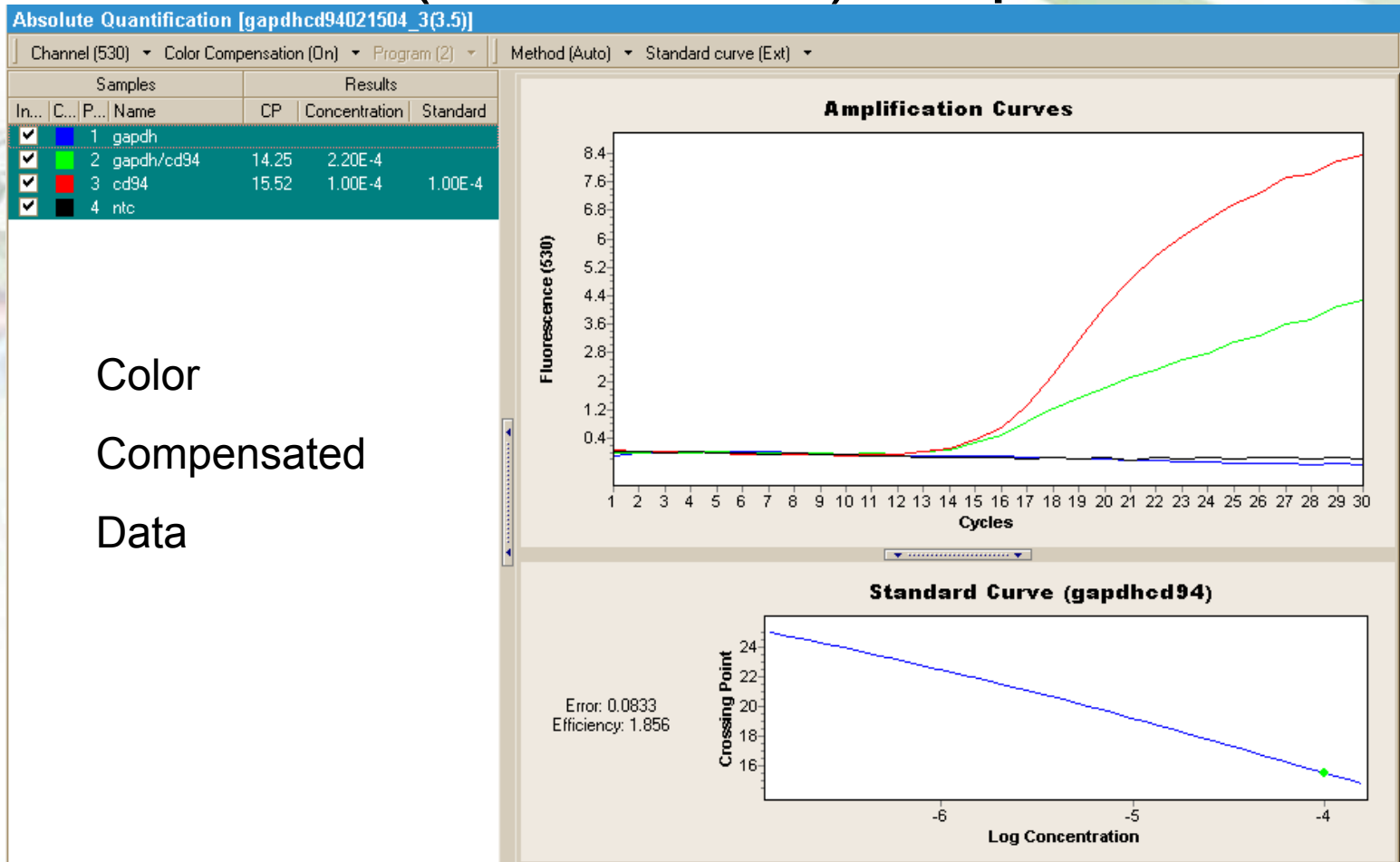
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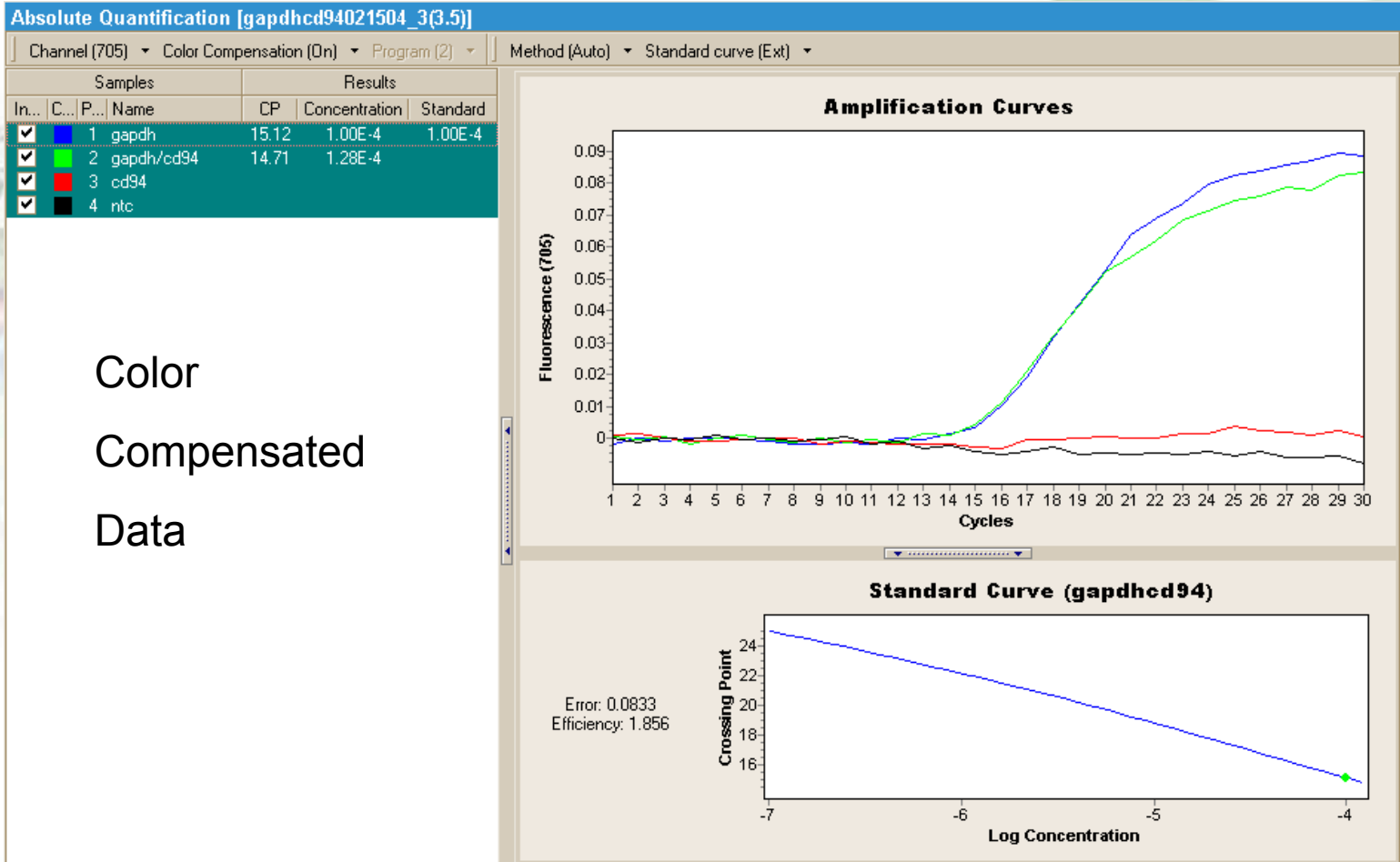
Two-Color TaqMan Assay - Relative Quantification System

	Product	Probe Chemistry	LightCycler 1.2 Detection Channel
Target	CD94	5'- BHQ2 -Probe- FAM -3'	1 (520-540 nm)
Reference	GAPDH	5'- BHQ2 -Probe- Pulsar-650 -3'	3 (680-730 nm)

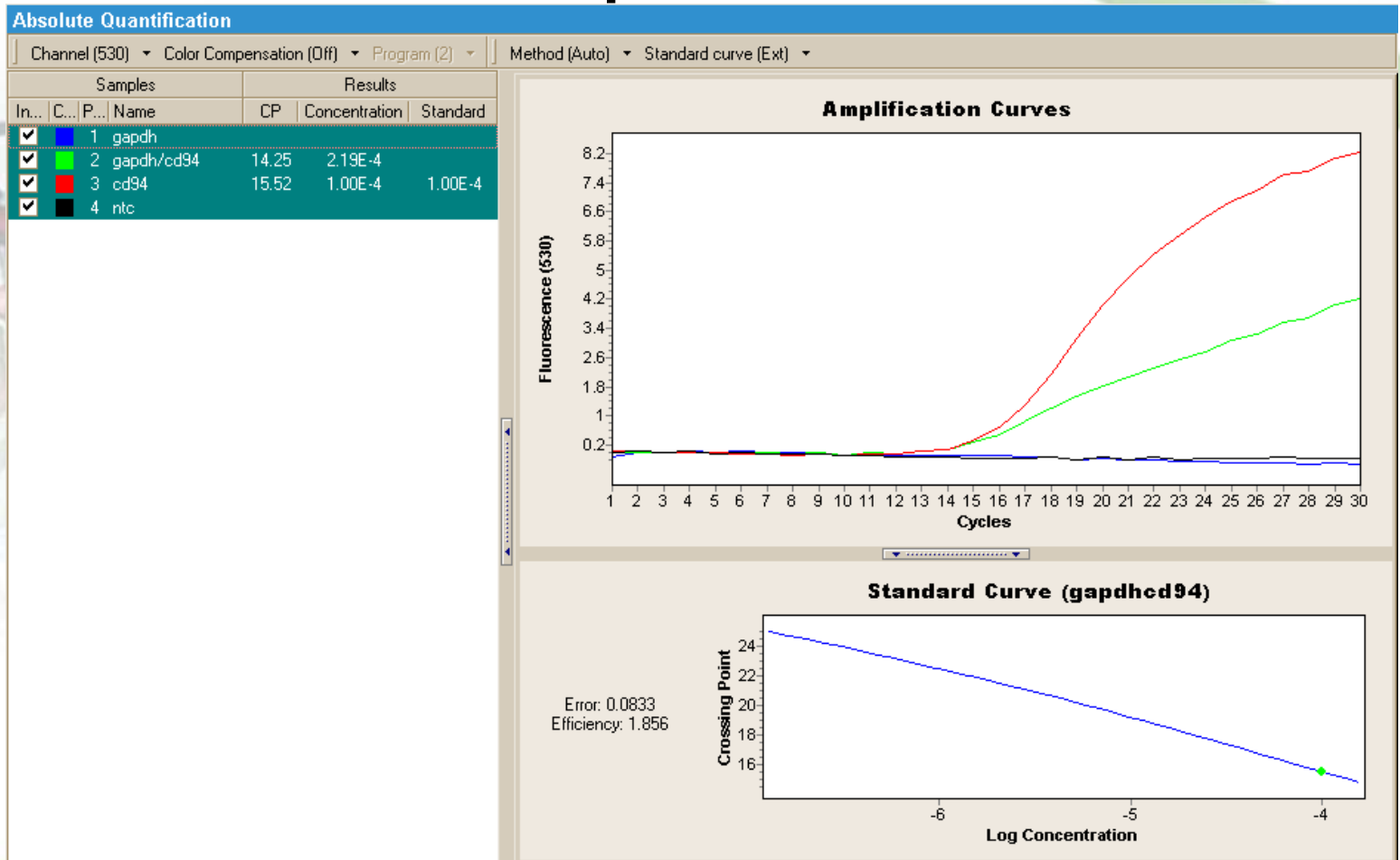
Specific Detection of Target with Channel 1 (BHQ2/FAM) TaqMan Probe



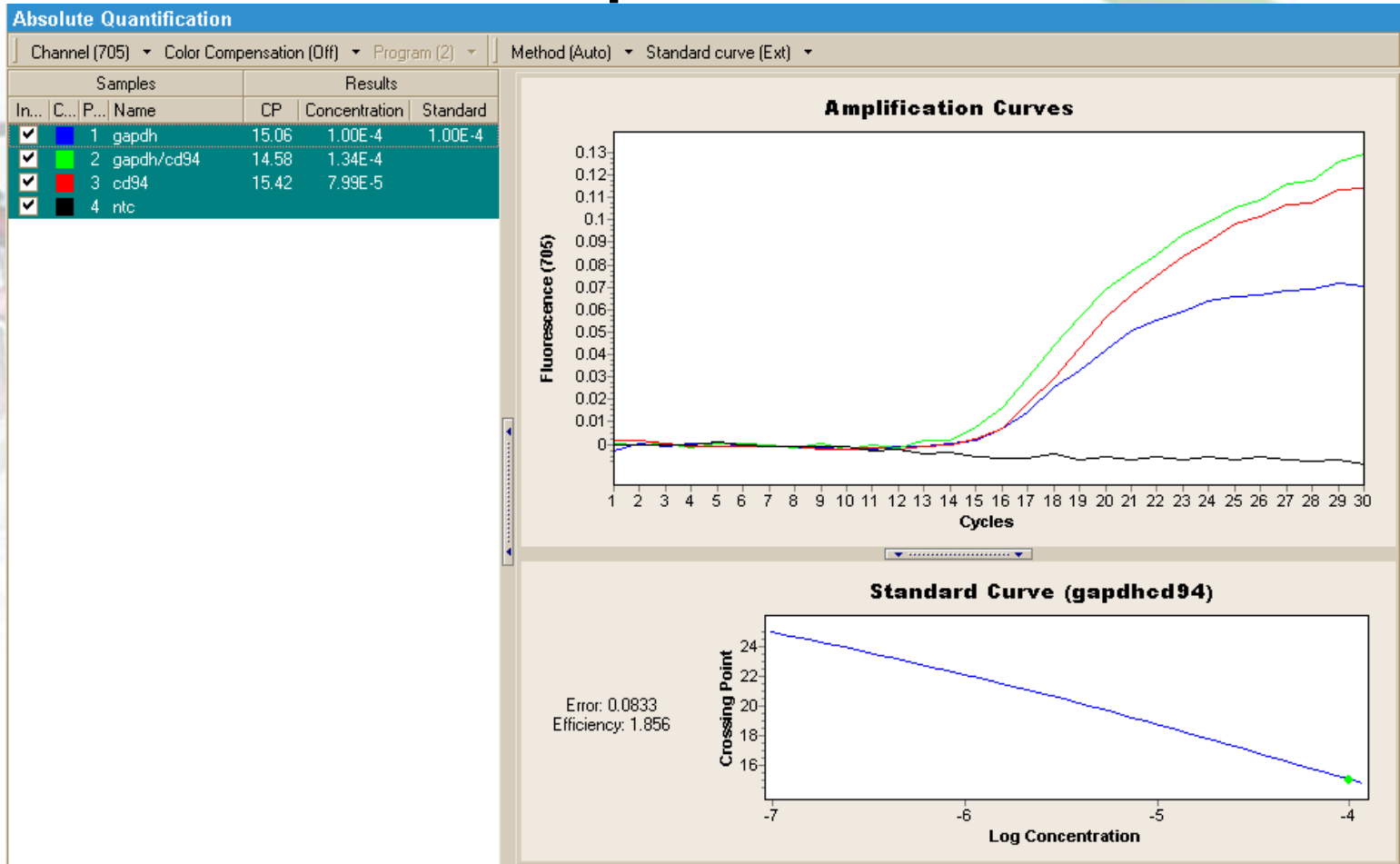
Specific Detection of Reference with Channel 3 (BHQ2/Pulsar) TaqMan Probe



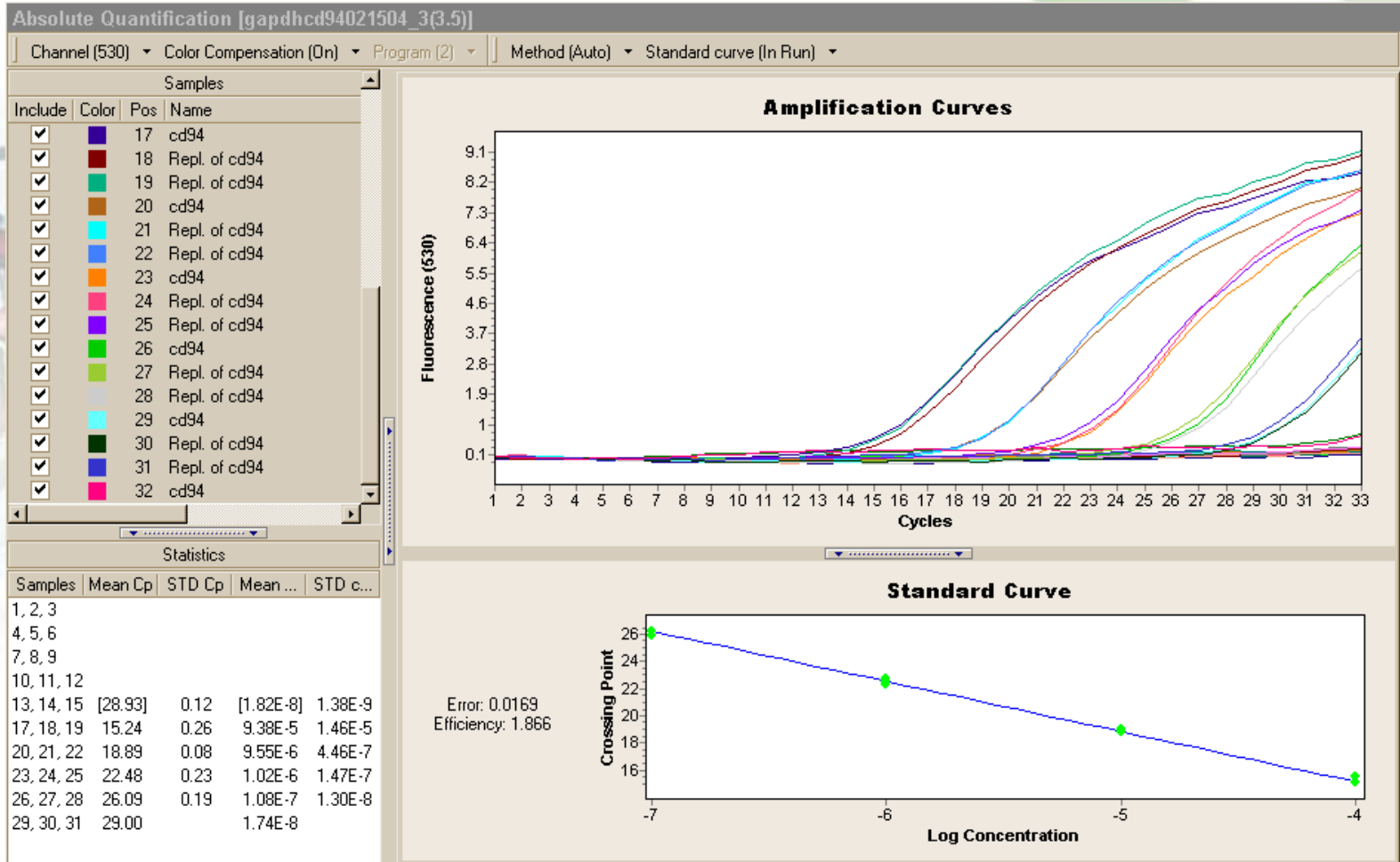
Channel 1- Color Compensation Off



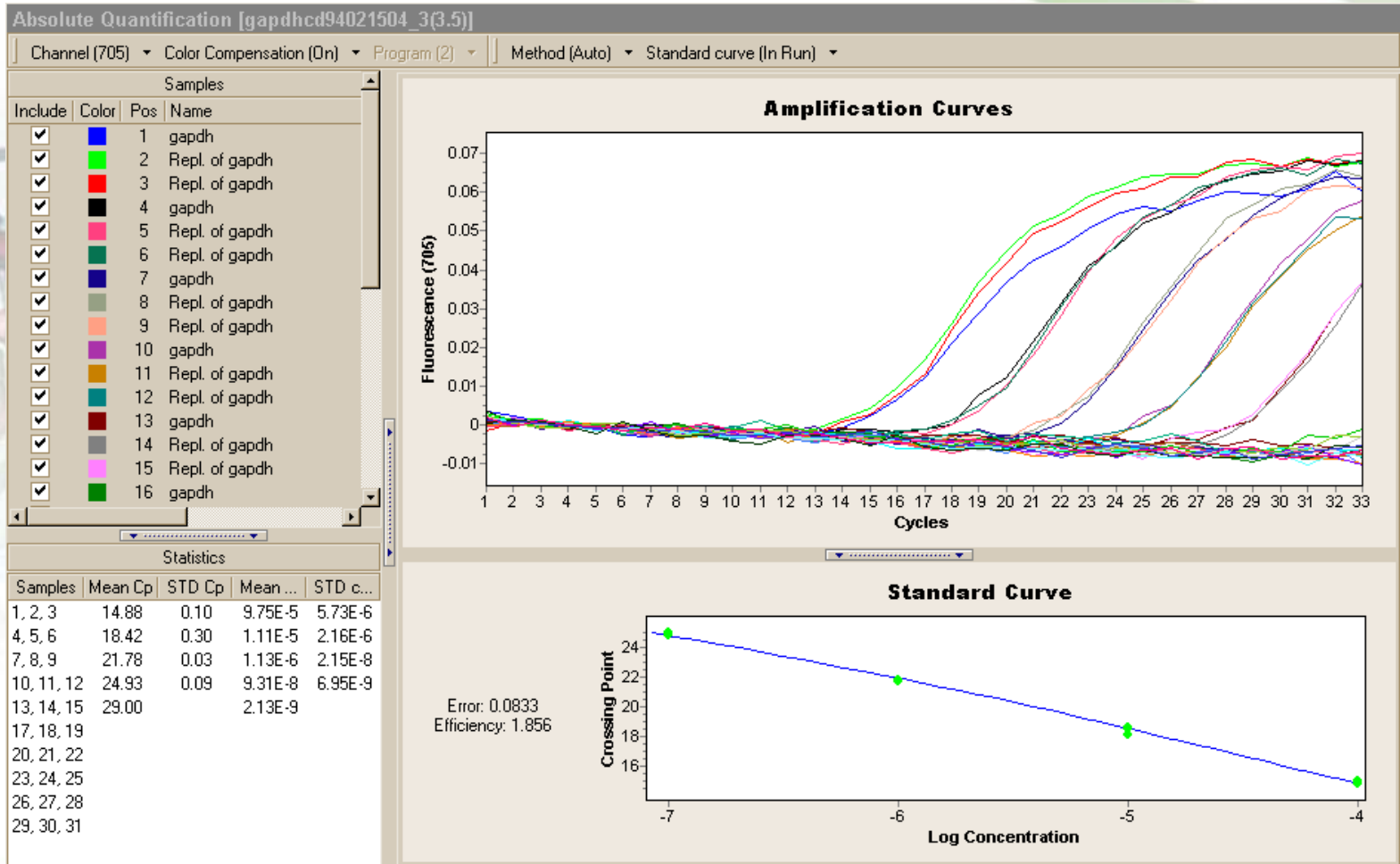
Channel 3 – Color Compensation Off



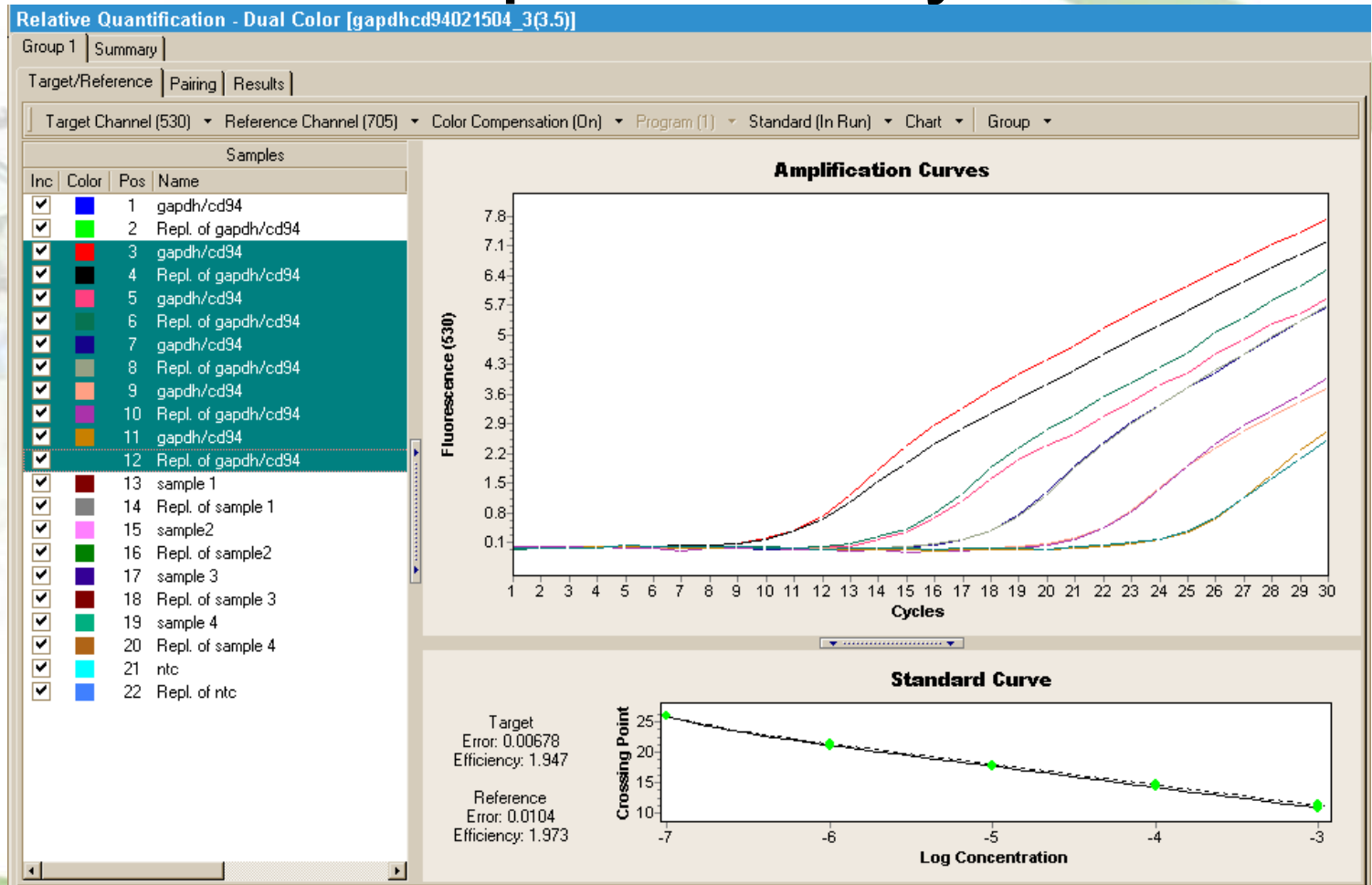
Target Dilution Series



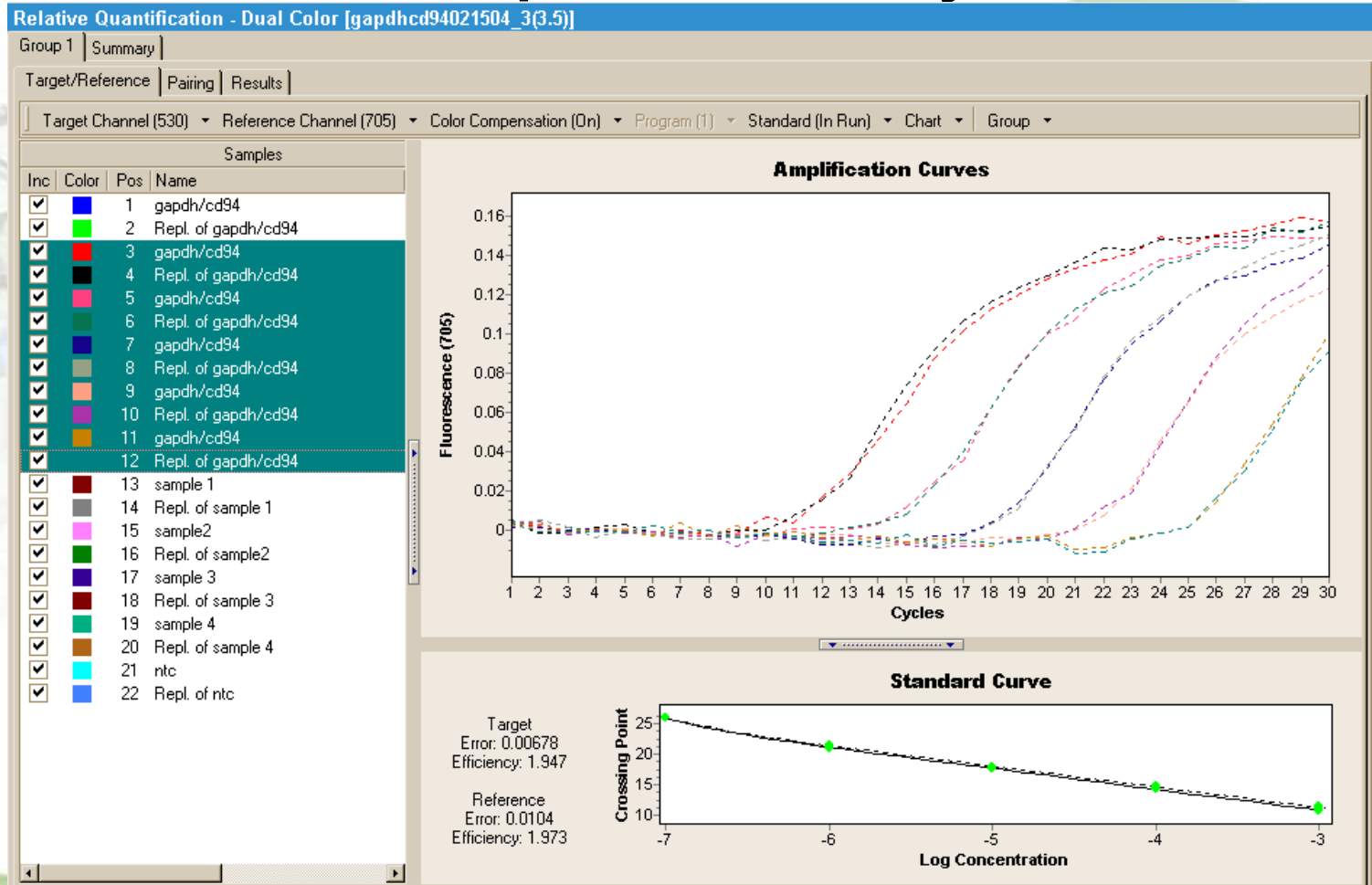
Reference Dilution Series



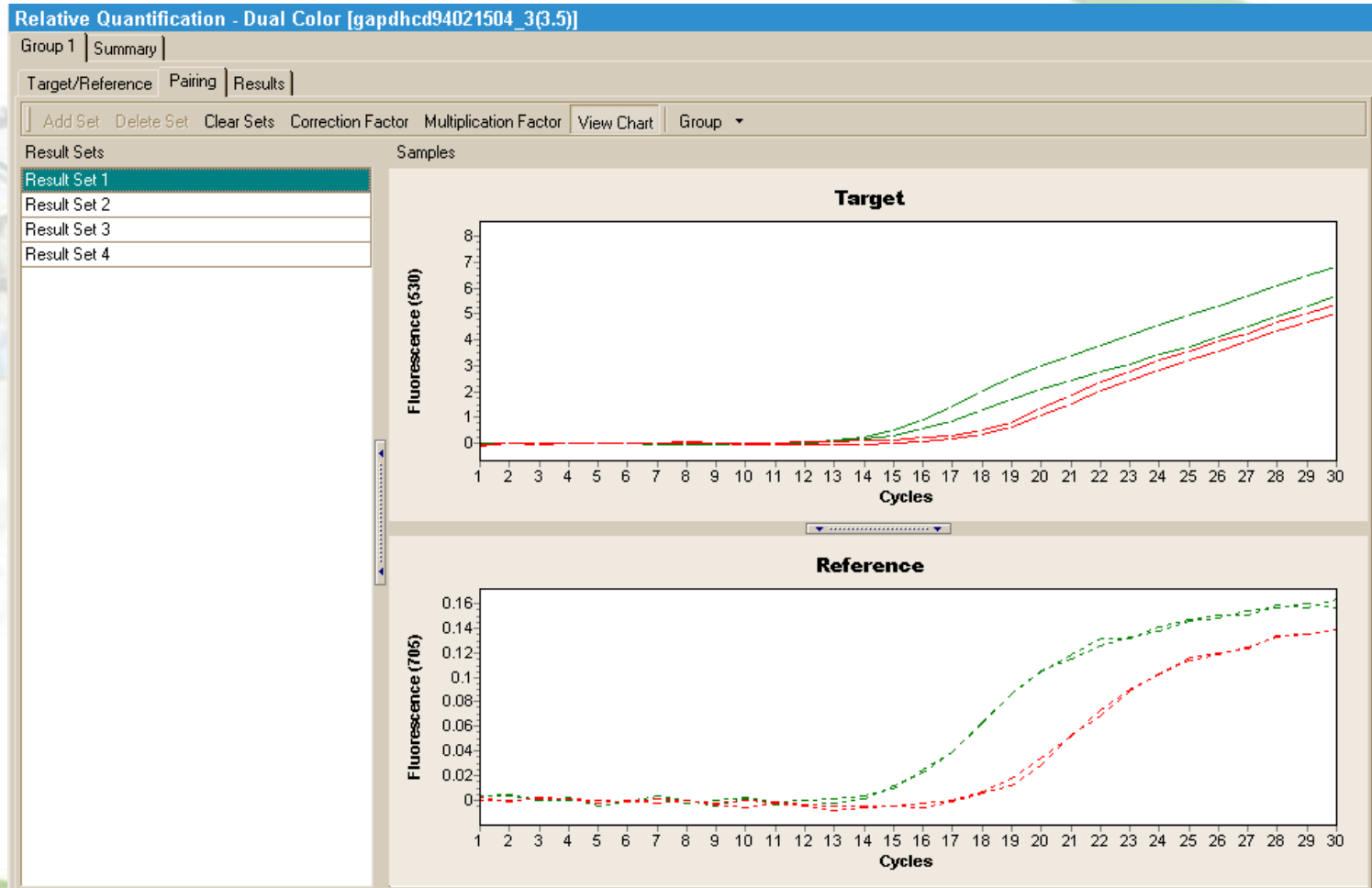
Target Standard Curve in Duplex Assay



Reference Standard Curve in Duplex Assay



Result – Standard Curve within Run



Relative Quantification – Standard Curve within Run

Relative Quantification - Dual Color [gapdhcd94021504_3(3.5)]

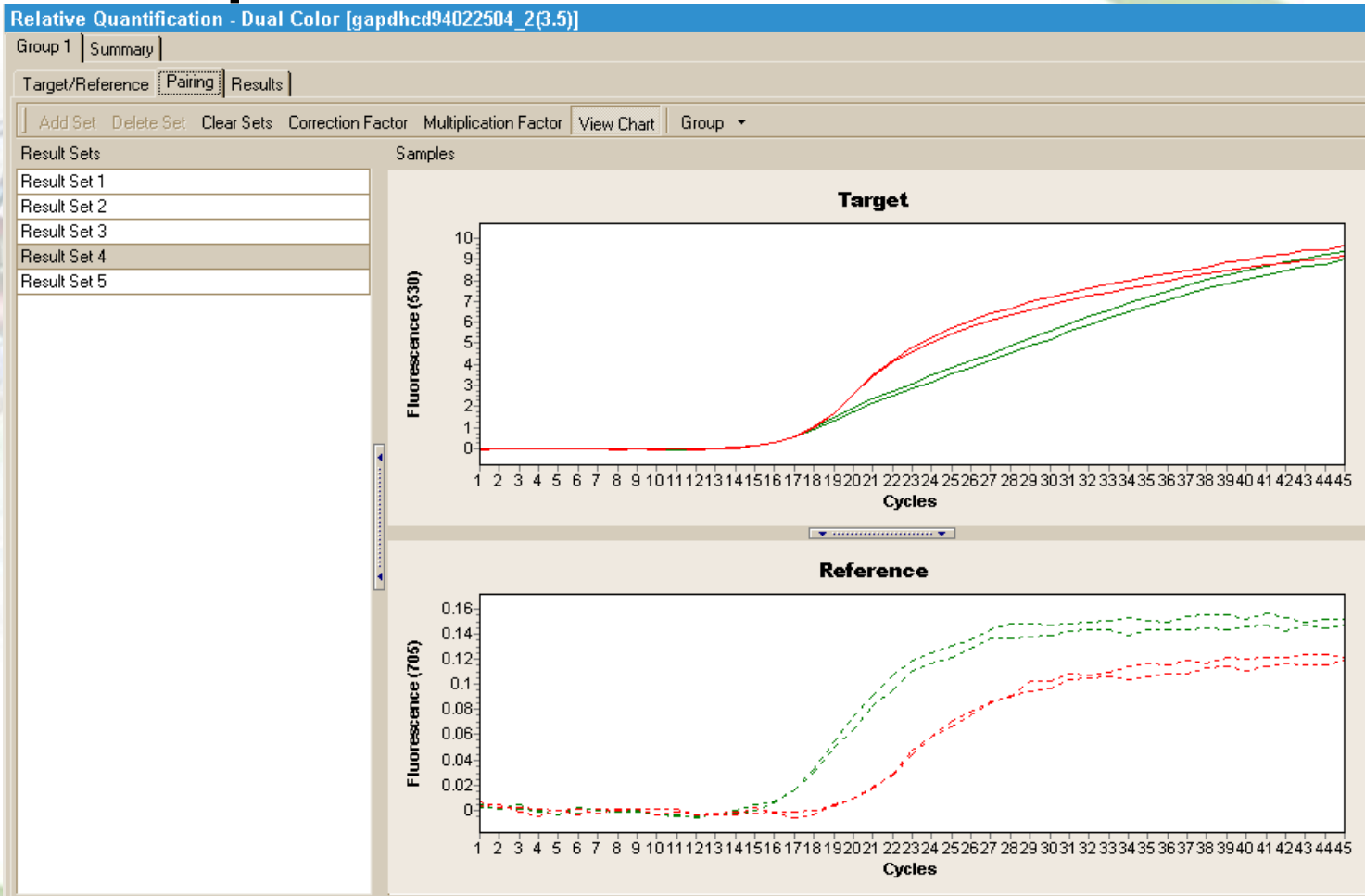
Group 1 | Summary

Target/Reference | Pairing | Results

Group ▾

Set	Sample Type	Pos	Sample Name	Target Cp Median	Ref Cp Median	Concentration Ratio	Normalized Ratio	Multiplication/Correction Factor
	Calibrator	1, 2	gapdh/cd94	14.53	14.69	0.84	1.00	
Result Set 1	Samples	13, 14	sample 1	17.76	17.84	0.84	1.00	1/1
Result Set 2	Samples	15, 16	sample2	15.99	17.66	2.42	2.86	1/1
Result Set 3	Samples	17, 18	sample 3	18.52	18.43	0.76	0.90	1/1
Result Set 4	Samples	19, 20	sample 4	19.66	21.02	2.06	2.43	1/1

Result – Imported Standard Curve



Relative Quantification - Imported Standard Curve

Relative Quantification - Dual Color [gapdhcd94022504_2(3.5)]

Group 1 | Summary |

Target/Reference | Pairing | Results

Group ▾

Set	Sample Type	Pos	Sample Name	Target Cp Median	Ref Cp Median	Concentration Ratio	Normalized Ratio	Multiplication/Corr...
	Calibrator	1, 2	Calibrator	15.83	15.93	0.83	1.00	
Result Set 1	Samples	3, 4	Sample 1	15.72	16.06	0.97	1.17	1/1
Result Set 4	Samples	9, 10	Sample 4	16.82	19.36	4.41	5.30	1/1

Final Remarks

- Pulsar-650 TaqMan probes enable powerful TaqMan applications in the LightCycler 1.2.
 - Internal standards for relative quantification
 - Internal controls to recognize false negative results in detection applications
 - Clinical applications
 - Bio-terrorism monitoring
 - TaqMan based SNP-Genotyping

Final Remarks (Cont)

- Enables triplex TaqMan assays in LightCycler 2.0
 - FAM
 - HEX(VIC)
 - Pulsar-650
- May also be useful in other instruments

Fluorescentric, Inc.

- Real-time PCR Services
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