# **PACKING SLIP**

THE MIDLAND **CERTIFIED REAGENT COMPANY** 

3112-A West Cuthbert Avenue MIDLAND, TEXAS 79701

(800) 247-8766 Ext. ....

Customer Number: NGUYEN Q

Customer Name: QUOL THANG NGUYEN

PO Number:

20326798

Terms:

**NET 30** 

Date:

9/21/05

Bill To:

**QUOL THANG NGUYEN** 

UNIVERSITY OF CA-SAN DIEGO **DISBURSEMENTS DIVISION 0955** 

9500 GILMAN DRIVE/ PO#20326798

LA JOLLA CA 92093-0955

Ship To: **QUOL THANG NGUYEN** 

**QUOL THANG NGUYEN** 

UREY HALL ROOM 7108 MC0319

9500 GILMAN DRIVE SAN DIEGO CA 92093

Oligo

Number

Length

Grade

Scale Lot Number

Order #

RP 1 092605-00148 37 mer 1

5'-( TXRED) ( C6Amino) TAGGGATCCTCTGTGGCCCAATTTGCAACCAGCCCTA ( BHQ-2)-3'

**TARGET** 

Oligo Name

2

27 mer

GF

.05 291905-0004C OPTS00031777

OPTS00031777

5'-CTGGTTGCAAATTGGGCCACAGAGGAT-3'



#### THE MIDLAND CERTIFIED REAGENT COMPANY, INC.

3112-A West Cuthbert Ave. ♦ Midland, TX 79701 ♦ Voice: 800-247-8766 or 915-694-7950 Fax: 915-694-2387 ♦ e-mail: robb@oligos.com ♦ Web site: http://www.mcre.com

#### Molecular Beacon Analysis

The Molecular Beacon (Lot 092605-00148; 5' TXRED- <u>TAGGG</u> ATCCTCTGTGGCCCAATTTGCAACCAG <u>CCCTA</u> –BHQ2 3') and target (Lot 291905-0004C;

5'-CTGGTTGCAAATTGGGCCACAGAGGAT -3') were analyzed in our laboratories to determine the signal-to-noise ratio of this pair.

The analysis was performed at RT on a Hitachi F-2000 Fluorescence Spectrophotometer, utilizing a 2 ml cuvette and a buffer containing 20 mM Tris-HCl, pH 8.0, 50 mM KCl, and 5 mM MgCl<sub>2</sub>. The excitation wavelength used was 583 nm and the emission wavelength was set to 603 nm. Two milliliters of buffer was added to the cuvette and the arbitrary fluorescence units were noted for the buffer alone ( $F_{buffer}$ ). Molecular Beacon was added to the cuvette to a final concentration of 50 nM. The increase in fluorescence due to background was allowed to stabilize and the value was recorded ( $F_{close}$ ). A 4-fold molar excess of the target solution was added and the fluorescence was monitored for a total of 2970 secs. The highest value was recorded ( $F_{open}$ ).

The Signal to background to noise ratio was calculated as follows:  $(F_{open} - F_{buffer})/(F_{close} - F_{buffer})$ 

 $\begin{array}{cc} F_{buffer} & 0.0185 \\ F_{close} & 0.317 \end{array}$ 

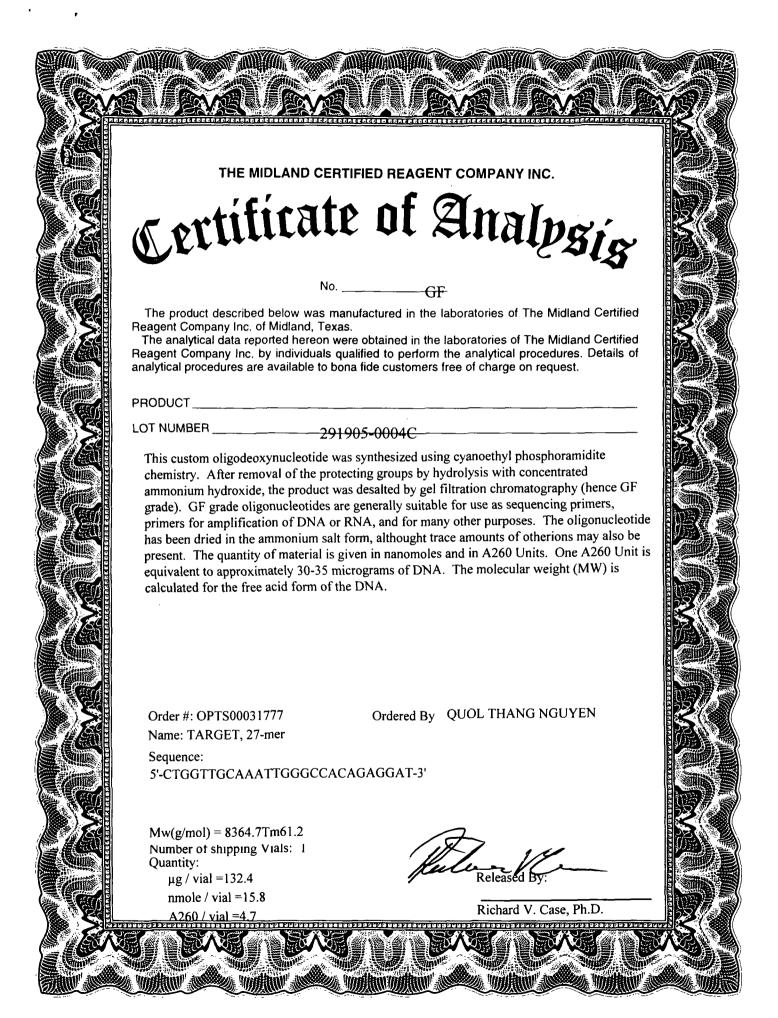
F<sub>open</sub> 4.228

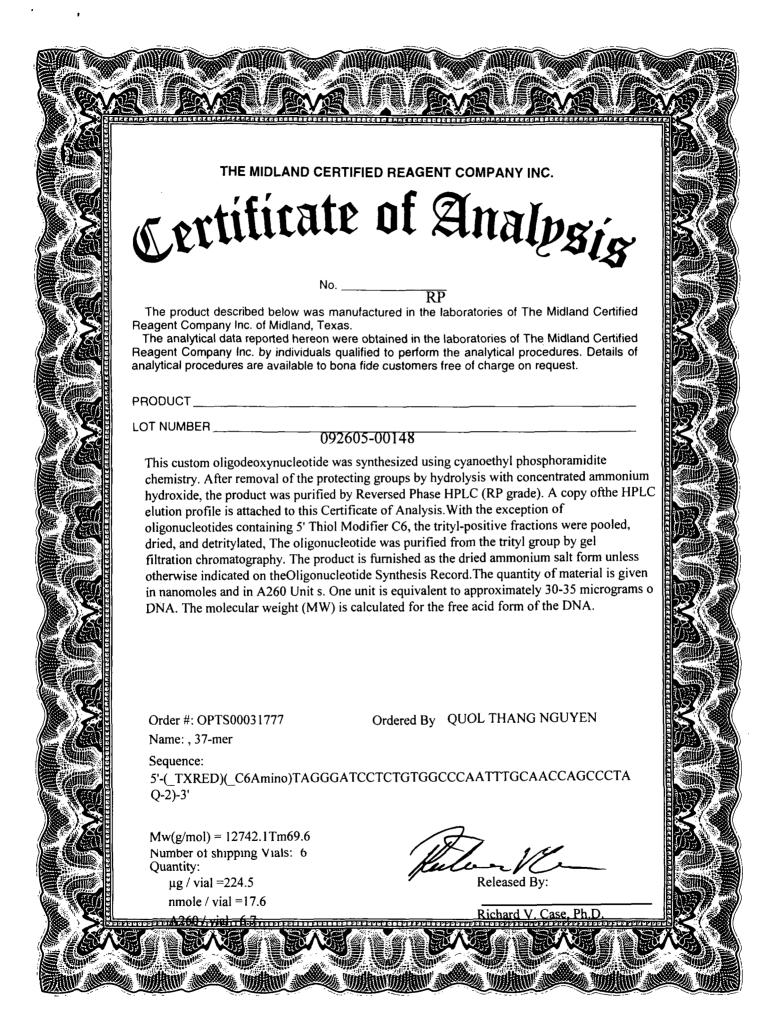
S/N 14.1

Documented by:

Robb **Le**€′

This Molecular Beacon Probe is sold under a license to The Midland Certified Reagent Company, granted by the Public Health Research Institute of the City of New York, Inc. This product comes with only limited field-of-use rights for research purposes only, under PHRI Patent Rights.





## CUSTOM OLIGONUCLEOTIDE SYNTHESIS RECORD

		A 5 6 7 8	Lot # <u>092605-148</u>
Operator 64 Date 9/24/05 Time	me <u>4:35</u>	$\Delta P = \frac{30.75}{9.101112}$ Cust	omer Qual Thong Nguy
SUPPORT: A C G T I U NH	3'-BHQ-2	_ 13 14 15 16 Oligo 17 18/19)20	
LL 500A 1000A	PHOSPHO	RAMIDITES:	Verified by
Mfgr Glen Lot # 6507726	PURGE?	X NO by <u>6#</u>	_
Net Weight grams	A_//,1_to	cc	_
X Loading 40 µmole/g	G12.1_to_	cc	- TAAN
=µmole	C_14.5_to	cc	TRON
prepared by 6H	T_10,0 to	cc	_
ORDER INSTRUCTIONS	X= Amina C	6 TFA Lot # 056928	e base 39 Ph
DNA Grade: GF AE PAGE TSP	X Port Date		_
Service: ND STD AE PAGE TSP	REAGENT	S: Final	<del>-</del>
Ship: 1 2 4 10 & ALLOD	Wash ACN	3. <b>0</b> /	_
Ship: M Tu W Th F S/	Tetrazole	80 /	_
DEPROTECTION:	Capping A	90 /	<del></del>
Vial #@_ PT °C	Capping B	80 /	
9-17 Start 930 AP by PA	Detritylating	<u> 400+ /</u>	_
Finish 10 AP by PA	Oxidizer	90 /	_
TRITYLS DEBLOCK	ING	DESALTING COLU	MN
Total #= 38 COLUMN		Absorbance at 260 nm	
Date: 09 .28-	05	Date: 10 0305	
Tube Abs a Time: 11:05	<u> </u>	Time: 510 (1)	<del></del>
No. 525 534 540 Run by	<u>)</u>	1	
2 472 Jube # A20	60 Nat	2 :34/	
3 (99) 1	\	3 .41- ) .775. 10	1454
4 2	(2 tubes)	4_ (1) <	
31/ 33/ 3 .999	1401425-0	5	
4		6	
5		7	
by		8	
Read by	<del>)</del> —	Packaged by	rev. 5/24/95

### POST SYSNTHSIS LABELING LOG

Tech initials	Date: 63006	Time: NOW		
Oligo Lot #: 592605 148	Scale	(5)/3'/Internal		
Dye Texas Red	Form: NHs / ITC / Other_			
Manufacturer Bisting	Dye Lot #: <u>4T1101</u>	Product #90039		
Labeling pH _9.5_	Buffer: NaCO3/NaHCO3	Other O. La		
Recovery procedure: Precipitation / Descolumn				

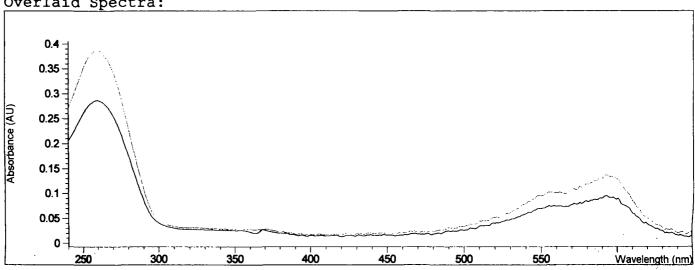
4

m.

Ratio/Equation Report Date 10/05/85 Time 15:42:24 Page 1 of 1

Method file : <untitled> Information: Default Method Data File : <untitled>

Overlaid Spectra:



Equation : Ratio = WL3/WL2

: WL1 = Abs(260nm), WL2 = Abs(579nm), WL3 = Abs(592nm), Wt =Where

Weight, V = Volume

#	Name	Dilut. Factor	Ratio	Abs<260nm>
1 2		1.00000 1.00000	1.11800 1.14720	0.28704 0.38692
#	Name	Abs<579nm>	Abs<592nm>	

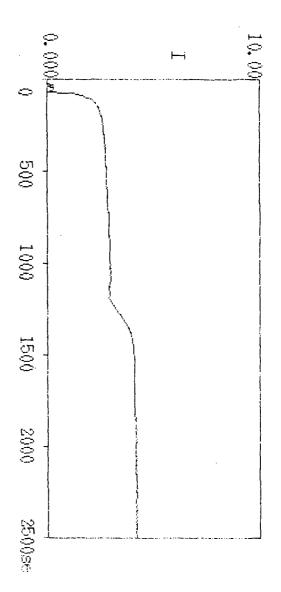
Report	generated	by	:	ROBB		Sig	nature:	
		*	* *	End	Ratio/Equation	Report	***	

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2100	4, 198
2130	4.187
2160	4,203
2190	4,215
2220	4.228 Force
2250	4.187
2280	4.207
2310	4.193
2340	4.184
2370	4,193
2400	4,206
2430	4,198
2460	4.204
2490	4.207
2520	4.203
2550	4.197
2580	4.198
2610	4,208
2640	4.206
2670	4.218
2700	4.214
2730	4.206
2760	4.204
2790	4,209
2820	4.218
2850	4.230
2880	4.216
2910	4.222
2940	4.215
2970	4.216

TIME SCAN/0926-148

10/05/05 16:38



## Midland Certified Reagent Co.

Original Filename: h:\masspec1\092605\00148-02.ms This File # 3 = H:\MASSPEC1\092605\00148-02.MS

Comment: See file name for lot #

Method: STD-DNA1

Accelerating Voltage: 20000 Grid Voltage: 92.000 %

Guide Wire Voltage: 0.050 % Delay: 375 ON

Sample: 55

Laser: 2400 Scans Averaged: 64 Pressure: 1.13e-06 Low Mass Gate: 700.0

Negative Ions: ON Collected: 10/5/05 5:20 PM

