

## Alexa Fluor® Oligodeoxythymidine-18 Conjugates (O-21560)

### Quick Facts

#### Storage upon receipt:

- -20°C
- Desiccate
- Protect from light

**Table 1.** Spectral characteristics of the Alexa Fluor oligodeoxythymidine-18 conjugates.

Catalog Number	Dye	Ex/Em *
O-21560	Alexa Fluor® 488	490/520
O-21561	Alexa Fluor® 555	555/565
O-21562	Alexa Fluor® 594	590/615
O-21563	Alexa Fluor® 647	650/670

\* Approximate excitation (**Ex**) and emission (**Em**) maxima in nm.

### Introduction

The Alexa Fluor® oligodeoxythymidine-18 (oligo(dT)<sub>18</sub>) conjugates are oligonucleotides that contain an 18-base sequence of thymidines, which is covalently labeled on the 5' end with an Alexa Fluor dye (Table 1). All of the Alexa Fluor dyes exhibit exceptionally bright and photostable fluorescence and are generally compatible with commonly used light sources and filter sets.

The Alexa Fluor oligo(dT)<sub>18</sub> conjugates are potentially useful as primers for synthesizing labeled DNA from poly(A)<sup>+</sup> RNA templates via reverse transcriptase. In this reaction, the primer provides the fluorescent label, whereas unlabeled nucleotides are incorporated by the enzyme. This labeling strategy ensures efficient and unbiased incorporation of the nucleotides, because the bulky dye molecule does not interfere with nucleotide incorporation. However, because the labeled nucleic acid fragments contain only a single fluorophore, the fluorescent signal may be lower than that achieved by incorporating fluorophore-labeled nucleotides.

### Materials

#### Contents

Alexa Fluor oligodeoxythymidine-18 conjugates are provided as solids in unit sizes of 10 nmol.

#### Storage and Handling

Upon receipt, store the oligonucleotides at -20°C, desiccated and protected from light. When stored properly, they should be stable for at least 6 months. They may be dissolved in any buffered aqueous solution, including hybridization solution. Solutions should be stored at -20°C, protected from light.

### Product List *Current prices may be obtained from our Web site or from our Customer Service Department.*

Cat #	Product Name	Unit Size
O-21560	oligodeoxythymidine-18, Alexa Fluor® 488 conjugate (Alexa Fluor® 488 dT <sub>18</sub> ) .....	10 nmol
O-21561	oligodeoxythymidine-18, Alexa Fluor® 555 conjugate (Alexa Fluor® 555 dT <sub>18</sub> ) .....	10 nmol
O-21562	oligodeoxythymidine-18, Alexa Fluor® 594 conjugate (Alexa Fluor® 594 dT <sub>18</sub> ) .....	10 nmol
O-21563	oligodeoxythymidine-18, Alexa Fluor® 647 conjugate (Alexa Fluor® 647 dT <sub>18</sub> ) .....	10 nmol

---

## Contact Information

Further information on Molecular Probes' products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — [www.probes.com](http://www.probes.com) — for the most up-to-date information

### **Molecular Probes, Inc.**

PO Box 22010, Eugene, OR 97402-0469  
Phone: (541) 465-8300 • Fax: (541) 344-6504

**Customer Service:** 7:00 am to 5:00 pm (Pacific Time)  
Phone: (541) 465-8338 • Fax: (541) 344-6504 • [order@probes.com](mailto:order@probes.com)

**Toll-Free Ordering for USA and Canada:**  
Order Phone: (800) 438-2209 • Order Fax: (800) 438-0228

**Technical Assistance:** 8:00 am to 4:00 pm (Pacific Time)  
Phone: (541) 465-8353 • Fax: (541) 465-4593 • [tech@probes.com](mailto:tech@probes.com)

### **Molecular Probes Europe BV**

PoortGebouw, Rijnsburgerweg 10  
2333 AA Leiden, The Netherlands  
Phone: +31-71-5233378 • Fax: +31-71-5233419

**Customer Service:** 9:00 to 16:30 (Central European Time)  
Phone: +31-71-5236850 • Fax: +31-71-5233419  
[eurorder@probes.nl](mailto:eurorder@probes.nl)

**Technical Assistance:** 9:00 to 16:30 (Central European Time)  
Phone: +31-71-5233431 • Fax: +31-71-5241883  
[eurotech@probes.nl](mailto:eurotech@probes.nl)

*Molecular Probes' products are high-quality reagents and materials intended for research purposes only. These products must be used by, or directly under the supervision of, a technically qualified individual experienced in handling potentially hazardous chemicals. Please read the Material Safety Data Sheet provided for each product; other regulatory considerations may apply.*

Several of Molecular Probes' products and product applications are covered by U.S. and foreign patents and patents pending. Our products are not available for resale or other commercial uses without a specific agreement from Molecular Probes, Inc. We welcome inquiries about licensing the use of our dyes, trademarks or technologies. Please submit inquiries by e-mail to [busdev@probes.com](mailto:busdev@probes.com). All names containing the designation ® are registered with the U.S. Patent and Trademark Office.

Copyright 2002, Molecular Probes, Inc. All rights reserved. This information is subject to change without notice.