**Fragile X Fluorescein-Labelled Probe**

**Code Y1442**

**Intended use**
Analyte Specific Reagent. Analytical and performance characteristics are not established.

**Nucleic Acid Target**
The Fragile X Probe is specific for the 1 kb *Pst*I fragment 3’ to the CGG trinucleotide repeat region within the *FMR1* gene on human chromosome Xq27.3.1,2

**Presentation**
This probe contains multiple 5’ fluorescein-labelled oligonucleotides from 29 to 43 bases in length. The probe is provided in TE buffer (0.01 mol/L Tris-HCl, 0.001 mol/L EDTA, pH 8.0).

**DNA Concentration:**
- 6 nM per oligonucleotide
- 114 nM total DNA

**Background**

Background diagram showing the location of the CGG repeat region within the *FMR1* gene.

**Specificity**
When tested in a non-radioactive Southern blot hybridization under stringent conditions, the probe does not cross-hybridize to any other human sequences.

**Precautions**
1. Analyte Specific Reagent. Analytical and performance characteristics are not established.
2. Use prudent laboratory practices when handling reagents. This includes avoiding unnecessary contact, and using personal protective equipment such as chemical resistant gloves, eye protection, and lab coat.

**Statement of Purity and Quality**
DNA sequences are ≥85% pure fluorescein-labelled molecules as determined by analytical HPLC. Molecular weight was verified by mass spectrometry. The Fragile X probe has been quality controlled by Southern blot hybridization.

**Storage**
Store at 2-8 °C. Avoid exposure to direct or indirect light.
Do not use after expiration date stamped on vial. If reagents are stored under any conditions other than those specified, the conditions must be verified by the user.

**References**

For further information, contact Dako Technical Support.