BioGenex
Accelerating the pace of precision medicine

DATA SHEET
Hsa-miR-21 fluorescenated oligo probe

Catalog No.	**Description**
HM021-100	One vial of 0.650 ml of probe in hybridization buffer

Analyte Specific Reagent. Analytical and performance characteristics are not established.

Doc. No. 932-HM021-100 Rev: D
Date of release: 31-Jul-2024

Description
The Hsa-miR-21 probe has been designed from mature human miR-21 sequence. This fluorescenated probe is provided in a hybridization buffer for localization of miRNA in FFPE tissue by *In Situ* hybridization.

Specifications
The Hsa-miR-21 identifies mature miR-21 sequences in formalin-fixed, paraffin-embedded human tissues and freshly prepared frozen tissues by *in situ* hybridization. This probe does not react with normal human mRNA or nuclear DNA present in tissues.

Storage and Handling
Store the reagent at 2-8 °C. Do not freeze. Do not use after expiration date on vial. The reagent must be brought to room temperature before use. (Important! The presence of precipitates induces background staining).

Precautions:
For professional use the probe contains formamide. Formamide is classified as a teratogen. Pregnant workers should keep exposure to a minimum. Avoid inhalation, ingestion, and contact with unprotected skin. If skin contact occurs, wash thoroughly with soap and water. For more information, refer to the Material Safety Data Sheet, which is available upon request.

Quality Control
Each lot of this micro RNA probe is tested by *In Situ* hybridization for Quality Control purposes. Refer to the BioGenex Quality Control Testing Conditions table for additional information.

References
1. Nielsen BS. et al. High levels of microRNA-21 in the stroma of colorectal cancers predict short disease-free survival in stage II colon cancer patients. Clin Exp Metastasis, 28:27-38 (2011).
2. Kloosterman WP. et al. *in situ* detection of miRNAs in animal embryos using LNA-modified oligonucleotide probes. Nature Methods, 3, 27 – 29 (2006).
3. Wheeler G. et al. *In situ* detection of animal and plant microRNAs. *DNA Cell Biol*, **26**, 251–255 (2007).
4. Nuovo GJ. In situ detection of precursor and mature microRNAs in paraffin embedded, formalin fixed tissues and cell preparations. Methods 44(1),39–46 (2008).
5. Song R. et al. *In situ* hybridization detection of microRNAs. Methods Mol Biol. 629, 287-94 (2010)

BioGenex Quality Control Testing Conditions

Parameter	Conditions used
Control Tissue	BREAST Carcinoma. (FB-HM021)
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues