

## *Product Data*

**Product:** Human Male Metaphase Slides  
**Catalog #:** HMM  
**Source:** Human Male Lymphocytes  
**Storage:** -20°C

### **Description:**

Human Male Metaphase Slides are prepared using standard cytogenetic slide preparation methods. They are prepared from karyotypically normal male PHA-stimulated peripheral blood lymphocytes that are cultured for approximately 72 hours, synchronized, and then cultured for an additional 5-7 hours before continuing with a standard chromosome harvest protocol. Slides produced are ideal for various FISH protocols, including probe verification and CGH.

### **How Supplied:**

Human Metaphase Slides are supplied in units of 5 and are ready to hybridize. Each slide can accommodate two 22mm<sup>2</sup> hybridization areas, for a total of 10 hybridization areas per unit. Store @ -20°C.

### **Quality Control Assay:**

Slides from each lot are stained and examined for the presence of metaphase spreads. Metaphases are examined to ensure all chromosomes are present, there are no abnormalities and chromosomes have a consistent length of 400-550 bands. Slides are also examined for optimal metaphase spreading, low surrounding cytoplasm and a high mitotic index. Each 22mm<sup>2</sup> hybridization area contains at least 20 high-quality spreads.

### **References:**

McFee AF, Sayer AM, Salomaa SI, Lindholm C, Littlefield LG. Methods for Improving the Yield and Quality of Metaphase Preparations for FISH probing of Human Lymphocyte Chromosomes. *Environ Molec Mutagen* 29:98-104 (1997).  
Yunis JJ, Sawyer JR, Ball DW. The characterization of high-resolution G-banded chromosomes in man. *Chromosoma* 67:293-307 (1978).  
Tobla A, Schildkraut C, Maio J. Deoxyribonucleic acid replication in synchronized cultured mammalian cells. *J Mol Biol* 54:499 (1970).