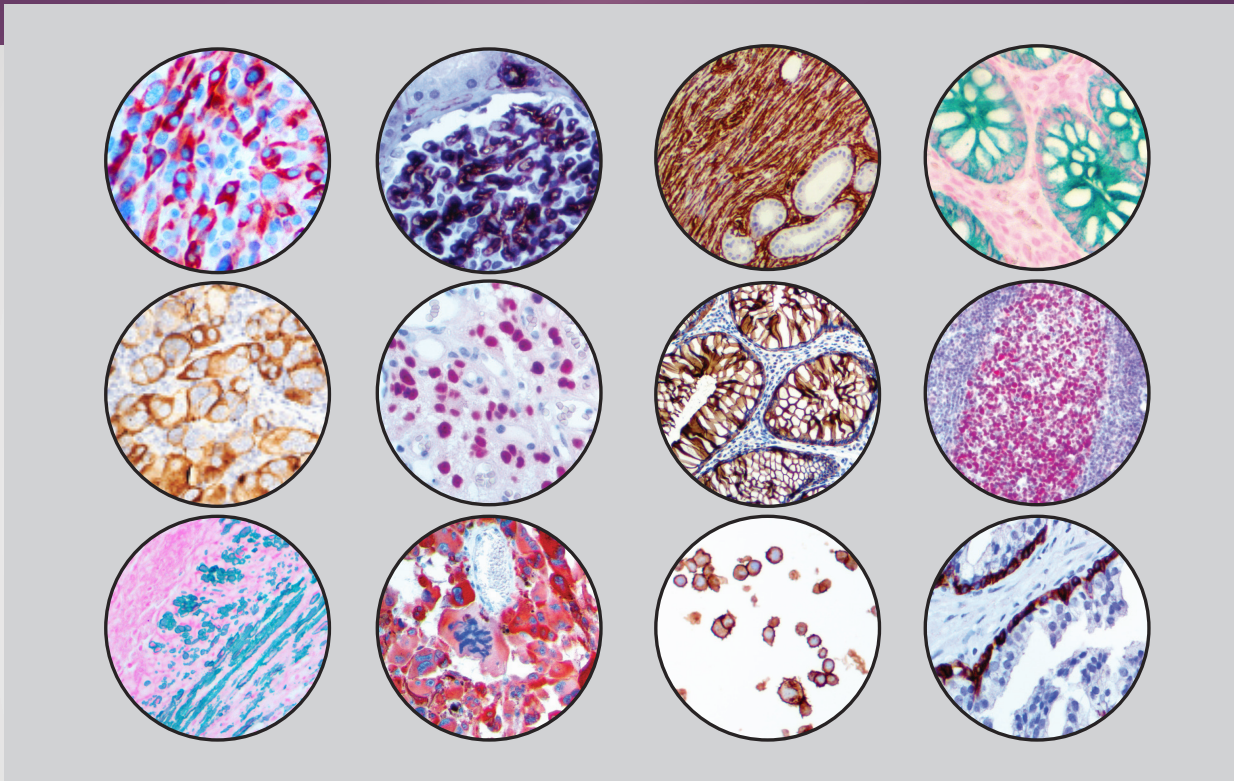


TISSUE MICROARRAYS **BIO** SB & CONTROL SLIDES

Tissue MicroArrays | Infectious Disease Arrays | IHC & ISH Validated



As the diagnostics market continues to grow, researchers and clinicians have a greater need for a wide variety of high quality and cost effective control slides. Control slides are invaluable tools utilized by institutions when validating reagents, qualifying new products, testing protocols or performing research which requires multiple tissue types. Bio SB control slides are cost effective, high quality tissues mounted on Hydrophilic Plus slides which are validated for use in immunohistochemistry (IHC).

Tissue Microarray Features

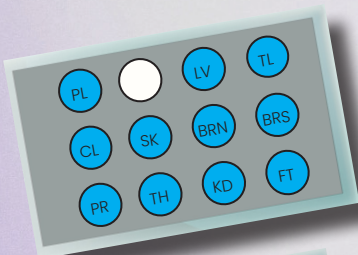
- Easy method of antibody validation
- Cost effective diagnostic control
- Test a large number of tissue types on one slide
- Available in 11 or 23 core format
- Validated for use with over 600 antibodies used in Immunohistochemistry



Above: Depiction of Normal Human 11 Core TMA

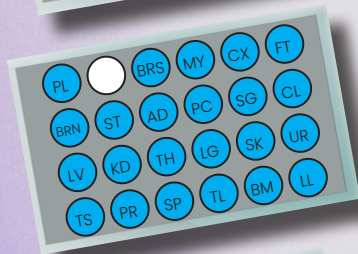
Normal Human Tissue Microarray (NTMA), Cancer Human Tissue Microarray (CATMA) and Cancer Human Cell Line Microarray (CaCLMA)

The Normal Human Tissue Microarray, or NTMA, Cancer Human Tissue Microarray, or CATMA, and Cancer Human Cell Line Microarray, or CLMA, are an excellent way to test and validate an antibody, ISH probe or other reagent on multiple tissues. The Bio SB NTMA's and CATMA's are available in both 11 or 23-core configurations. The Bio SB NTMA's, CATMA's and CLMA's are an excellent way for clinics and research labs to save time and money by allowing multiple tissues to be tested on one slide.



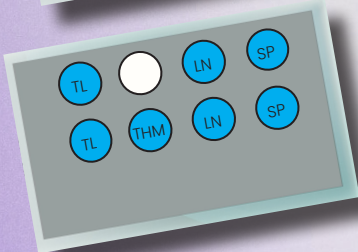
BSB 0297 - 11 Core Normal Human Tissue Microarray (NH-TMA)

PL - Placenta	Blank	LV - Liver	TL - Tonsil
CL - Colon	SK - Skin	BRN - Brain	BRS - Breast
PR - Prostate	TH - Thyroid	KD - Kidney	FT - Fallopian Tube



BSB 0298 - 23 Core Normal Human Tissue Microarray (NH-TMA)

PL - Placenta	Blank	BRS - Breast	MY - Myometrium	CX - Cervix	FT - Fallopian Tube
BRN - Brain	ST - Stomach	AD - Adrenal	PC - Pancreas	SG - Salivary	CL - Colon
LV - Liver	KD - Kidney	TH - Thyroid	LG - Lung	SK - Skin	UR - Urothelial Carcinoma
TS - Testis	PR - Prostate	SP - Spleen	TL - Tonsil	BM - Bone Marrow	LL - Lymphoblastic Lymphoma



BSB 0299 - 7 Core Normal Human Lymphoid Tissue Microarray

TL - Tonsil	Blank	LN - Lymph Node	SP - Spleen
TL - Tonsil	THM - Thymus	LN - Lymph Node	SP - Spleen

The maps above outline the various normal tissue types used. Each slide comes with a "blank" core for easy orientation & interpretation.

Cancer Human Tissue Microarrays (CATMA)

The Human Cancer Tissue Microarrays (CATMA) consist of 2 mm cores of human cancer formalin-fixed paraffin-embedded tissues which were assembled in array fashion. This allows multiplex molecular pathology analysis and validation of reagents, or to be used as tissue controls for Immunohistochemistry and/or in-situ hybridization (CISH and FISH) applications.



BSB 0230 - 11 Core Cancer Human Tissue Microarray

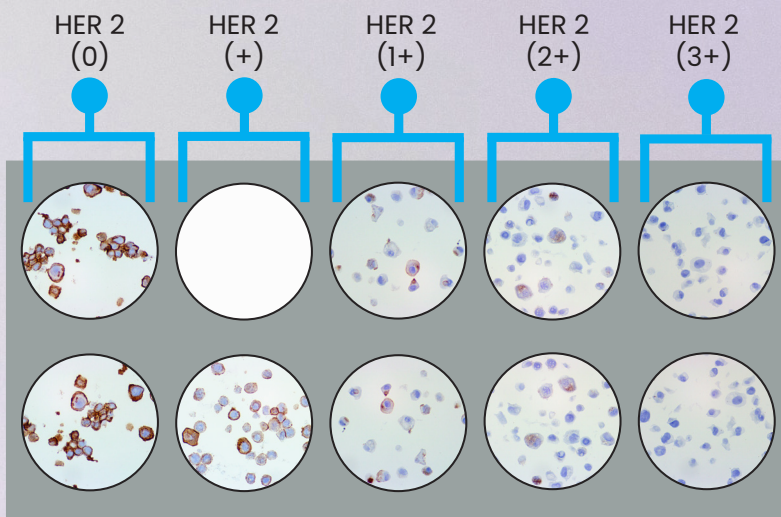
Going in top-down order as what is listed in the figure, the Human Cancer 11-core TMA contains the following human cancer tissues: Melanoma, Endometrial Carcinoma, Prostate Carcinoma, Ovarian Serous Carcinoma, Renal Clear Cell Carcinoma, Lung Squamous Cell Carcinoma, Ductal Breast Carcinoma, Diffuse Type Gastric Carcinoma, Lung Adenocarcinoma, HER2 Negative Breast Carcinoma, and Colon Adenocarcinoma.

Cancer Human Tissue Microarrays	Catalog #
11-Core Human Cancer TMA	BSB 0230
23-Core Human Cancer TMA	BSB 0231
2-Core Human PIN TMA	BSB-0333-CS

* Tissue selection may vary from lot to lot

Cancer Human Cell Line Microarrays (CLMA)

The Cancer Human Cell Line Microarrays (CLM) consist of 2 mm cores of human cancer formalin-fixed paraffin-embedded cell lines which were assembled in array fashion to allow multiplex molecular pathology analysis and validation of reagents, or to be used as tissue controls for Immunohistochemistry, Immunocytochemistry and/or in-situ hybridization (CISH and FISH) applications.

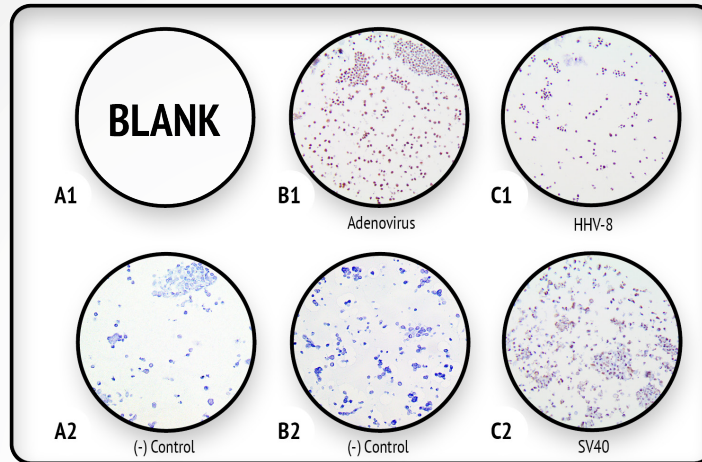


Above: HER-2 Cell Line Microarray with various signal strengths.

Cell Line Microarrays	Catalog #
3-Core GIST CLMA	BSB 0242
5-Core Melanoma CLMA	BSB 0243
9- Core HER-2 neu CLMA	BSB 0292
7-Core ER/PR CLMA	BSB 0293
7-Core HPV Cervical Cancer CLMA	BSB 0294
7-Core EGFR CLMA	BSB 0295
3-Core ALK CLMA	BSB 0296
3-Core Lung Cancer CLMA	BSB 0296
9-Core PTEN CLMA	BSB 0300
7-Core PD-L1 CLMA	BSB 0301
11-Core Breast Cancer CLMA	BSB 0302
5-Core BRAF V600E CLMA	BSB 0305
3-Core Neuroblastoma CLMA	BSB 0303
11-Core Immunotherapy CLMA	BSB 0304
31-Core Multi Cancer CLMA	BSB 0244
3-Core Androgen Receptor CLMA	BSB-0334-CS
3-Core ROS1 CLMA	BSB-0335-CS
3-Core IDH1 R132 CLMA	BSB-0336-CS
4-Core MMR CLMA	BSB-0337-CS

Infectious Disease Cell Line Microarray (ID-CLMA)

The Bio SB Infectious Disease cell line Microarray, or ID-CLMA is a simple and cost effective way to test and validate infectious disease markers by immunohistochemical (IHC) or in situ hybridization (ISH). The ID-Microarray is available in a 5-core or Individual virus configuration, and includes two areas for tissue mounting. All TMA's include negative controls to reduce interpretation error.



Above: 5-Core Multi-Infectious Cell Line Microarray (BSB 0307).

ID-CLMA

- Test multiple infectious disease markers
- Optimized for IHC & ISH Applications
- Cost effective solution
- Test multiple samples at once
- Two control tissue mounting areas for Manual or Automated IHC/ISH users

Infectious Disease CLMA's	Catalog #
Multi ID-Array (5-Core)	BSB 0307
Adenovirus ID-Array (2-Core)	BSB 0310
SV-40 ID-Array (2-Core)	BSB 0308
HHV-8 ID-Array (2-Core)	BSB 0309
Treponema TMA (2-Tissue)	BSB-0338-CS
Gram Positive & Negative (3-Tissue)	BSB-0339-CS
Fungus: Aspergillus, Candida, Histoplasma (4-Tissue)	BSB-0340-CS



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