TruQ™
Bioengineered Tissue Microarray Controls

SUPPORTING IHC, ISH and CISH TESTING CONSISTENCY

The look of tissue.
The consistency of cell lines.
The future of controls.

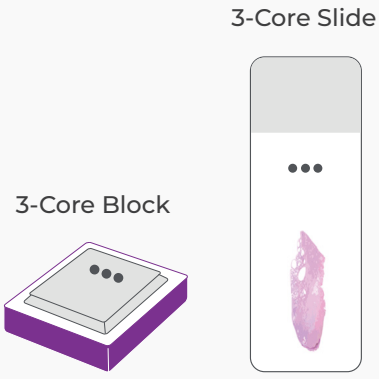
StatLab

Helping labs meet CAP recommendations and pathologists' preferences.

TruQ™ Bioengineered Tissue Microarray (TMA) Controls deliver the first reference-standard control that meets CAP recommendations for on-slide positive and negative IHC controls—with the look of tissue.

Tissue controls will always vary slightly in biomarker expression, as well as consume valuable histotech resources to procure and manage. Cell line controls do not look like tissue, serving as an ineffective substitute for tissue controls. TruQ™ Bioengineered TMA Controls are the answer.

TruQ™
BIOENGINEERED CONTROLS



All products available in slide and block format. Biomarkers can be customized and developed upon request. Please contact us for more information.

Biomarker	Core 1	Core 2	Core 3	IHC Validated	FISH Validated
Her2/neu	3+	2+/3+	Negative	✓	✓
PD-L1	High expression	Low expression	Negative	✓	
P53	High expression	Negative	--	✓	
GATA3	High expression	Negative	--	✓	
P16	High expression *with internal negative control*	--	--	✓	
Ki-67	High expression *with internal negative control*	--	--	✓	

TruQControls.com

What are Bioengineered TMA Controls?

TruQ Bioengineered TMA Controls are created using a patented histosynthesis process utilizing cell lines, resulting in a product that looks like tissue but delivers the consistency required for monitoring assay performance and improving accuracy of diagnosis.

Consistent

Delivers consistent biomarker profiles, cellular polarity, and standardized antigen expression in every block—every time—providing complete control over verification and validation. Each lot of TruQ controls are externally tested for consistency by a CAP-accredited laboratory.

Easy-to-Use

Bioengineered tissue controls contain the same stromal appearance and morphology as tissue, eliminating the need for additional training. Ready-to-use slide and block controls accommodate the existing workflows of both low and high-volume laboratories.

Time-Saving

Eliminates a time-consuming search to replace exhausted tissue blocks when tissue with the same biomarker expression is not readily available. Allows labs to focus valuable histotech resources on improved patient care and other high-value activities.

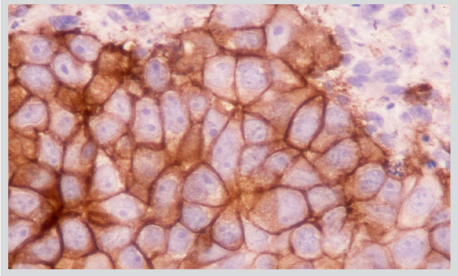
Inexhaustible

Prevents disruption by ensuring a reliable source for access to controls with known marker expression profiles. The manufacturing process for bioengineered controls means laboratories can rely on inexhaustible, reliable controls whenever needed.

Validated on automated IHC platforms

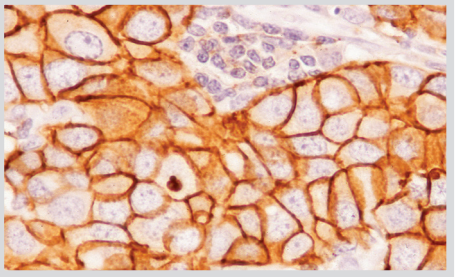
- Leica BOND III
- Ventana Benchmark Ultra
- Dako Omnis
- StatLab Quantum HDx

Compare TruQ to other controls



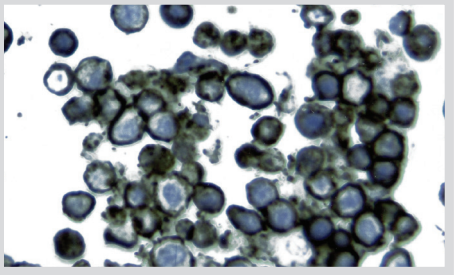
Bioengineered TruQ (Her2/neu, 3+)

- Consistent biomarker expression
- Reproducible and inexhaustible
- Tissue-like morphology
- Proven advantages compared to tissue controls in peer-reviewed study [1]



Tissue (Her2/neu, 3+)

- Consumes valuable resources to manage replacement or creation of an exhausted block



Cell Line (Her2/neu, 3+)

- Consistently available, but can differ in biomarker expression due to antigenic drift phenomenon
- Not preferred by many pathologists due to morphology inconsistent with tissue

1. Myers, Charles W. MD*; Bhimji-Patel, Sonal BS*; Rees, Mark PhD†; Imam, Syed Ashraf PhD†; Cohen, Cynthia MD* 3D Tissue Microarray Controls: A Potential Standardization Solution, Applied Immunohistochemistry & Molecular Morphology: October 2018 - Volume 26 - Issue 9 - p 676-681 doi: 10.1097/PAI.0000000000000495

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Some of Our TruQ Satisfied Customers

Name	Biomarker
Kaiser Permanente, Berkeley, CA	Her2/neu, P16
MD Anderson Cancer Center, Houston, TX	Her2/neu
Baylor Medical Center, Temple, TX	Her2/neu
Brooke Army Medical Center, San Antonio, TX	Her2/neu
University of Texas Southwestern Hospital, Dallas, TX	Her2/neu
Indiana University Health, Indianapolis, IN	Her2/neu
McLean Regional Medical Center, Flint, MI	Her2/neu
Quest Diagnostics, Neptune, NJ	Her2/neu
Western Pathology Association, Phoenix, AZ	Her2/neu
Alleghany General Hospital, Wexford, PX	Her2/neu