

ARCTis™ Oncology T-47D

Always Ready Cryo Tissues

Origin

T-47D are epithelial cells isolated from a pleural effusion obtained from a 54-year-old female patient with an infiltrating ductal carcinoma of the breast. Use these cells in your breast cancer research. (ATCC HTB-133™)

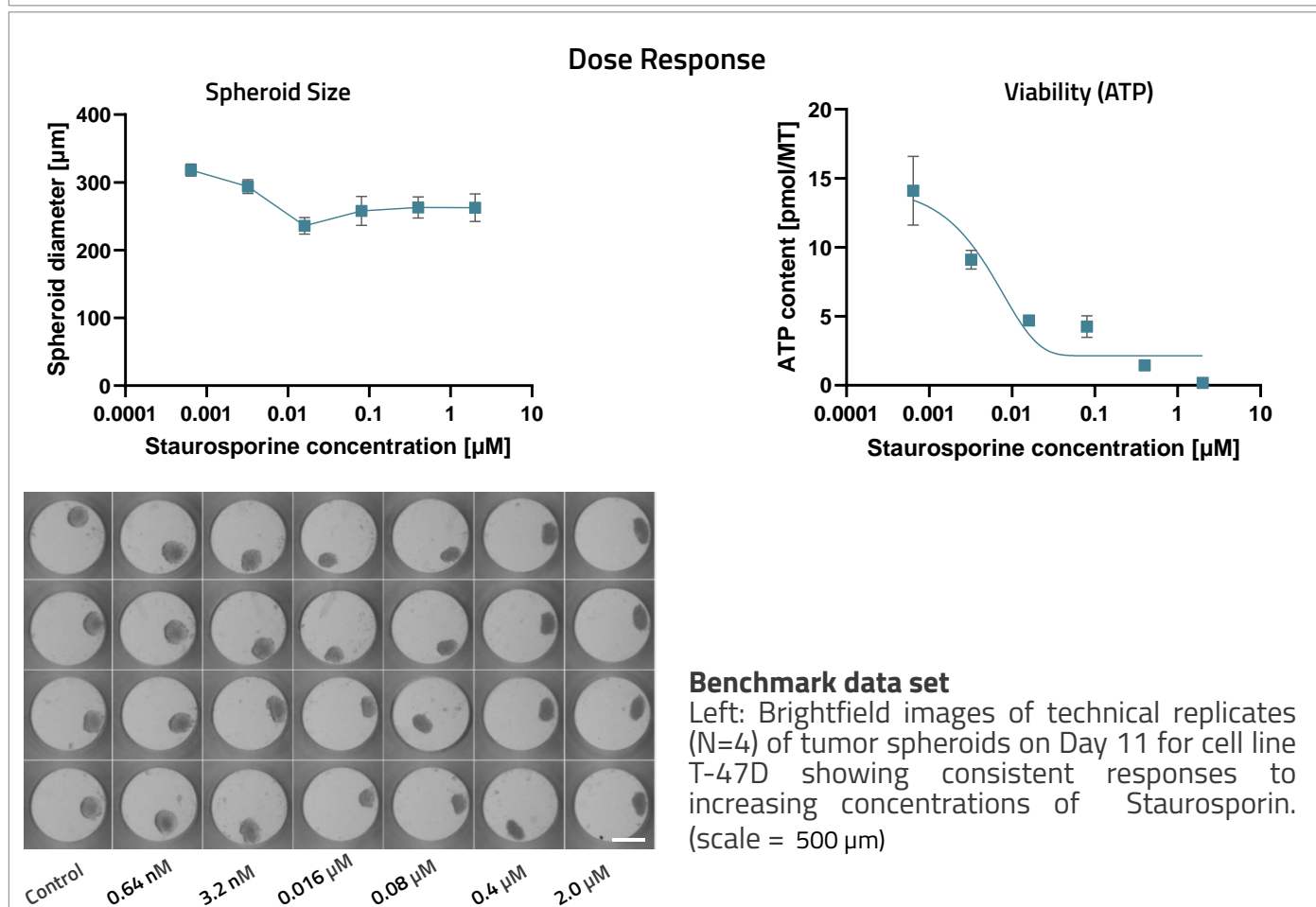
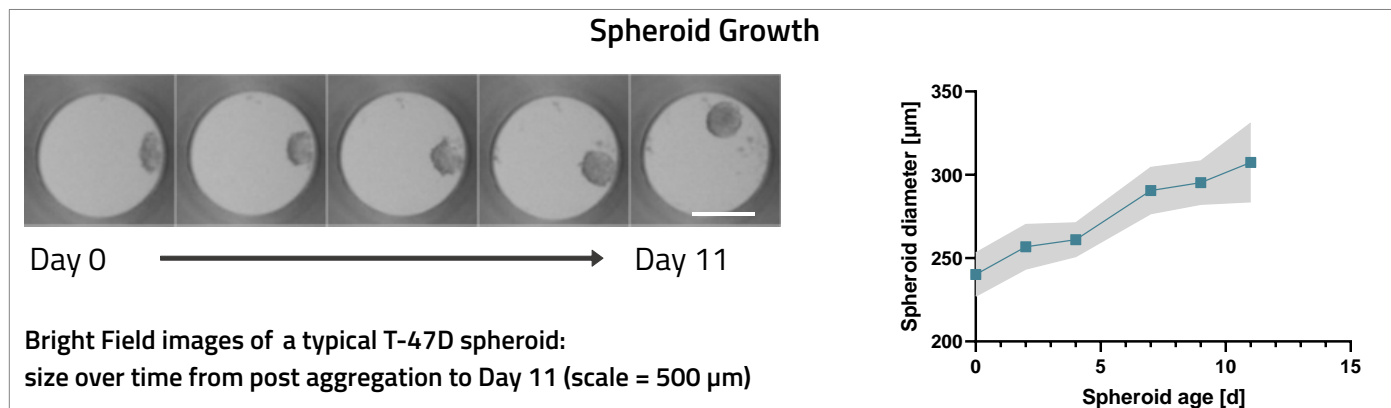
Cell Line	
Product category	Human cells
Organism	Homo sapiens, human
Morphology	epithelial
Tissue	Breast; Mammary gland
Disease	Carcinoma; Ductal
Applications	3D cell culture Cancer research
Product format	Frozen
Storage conditions	-80 °C
Culture platform	Akura™ 96 Spheroid Microplate
Delivery format	96 well/ one MT per well

Model set up	
Model type	Monotypic tumor microtissue
Inoculation cell nr.	1000 cells/well
Assay-ready*	5 days in culture
Morphology	Compact, spheroidal
Size after re-aggregation	~240 µm
Assay specifications	
Assay window	Up to 11 days
Max. tissue size day 10 (Growth window, Ø)	~310 µm (~70 µm)
Viability ATP (Day 10)	~15.0 pmol/MT
Max. Treatment response for size (Staurosporin, Ø)	280 - 310 µm
*Use recommended Re-aggregation Medium	
**Use Tumor Maintenance Medium	

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Reference data set

T-47D cell line was evaluated for spheroid formation, growth and viability over 11 days. Growth characteristics for this model with respect to proliferation and size were measured over 11 days and benchmarked using a standard cytotoxic agent - Staurosporine. Day 0 defines the start of an assay which for T-47D is after 5 days in culture for reaggregation and cryopreservation recovery.



Benchmark data set

Left: Brightfield images of technical replicates (N=4) of tumor spheroids on Day 11 for cell line T-47D showing consistent responses to increasing concentrations of Staurosporin. (scale = 500 µm)

Item #	Var. Code	Description
AT-NB00-0T0-001	T-47D	ARCTis™ Oncology - Breast

Mycoplasma	The cell line was tested negative
Virus	Refer to CoA of prod. lot
Quality Control & batch number	Supplied with each shipment

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Flyer Version: 2023-Jun Vers 1