

ARCTis™ Oncology A498

Always Ready Cryo Tissues

Origin

A-498 is a cell line with epithelial morphology that was isolated from kidney tissue obtained from a 52-year-old, female, kidney cancer patient. This cell line is a suitable transfection host and has applications in cancer research. (ATCC HTB-44™)

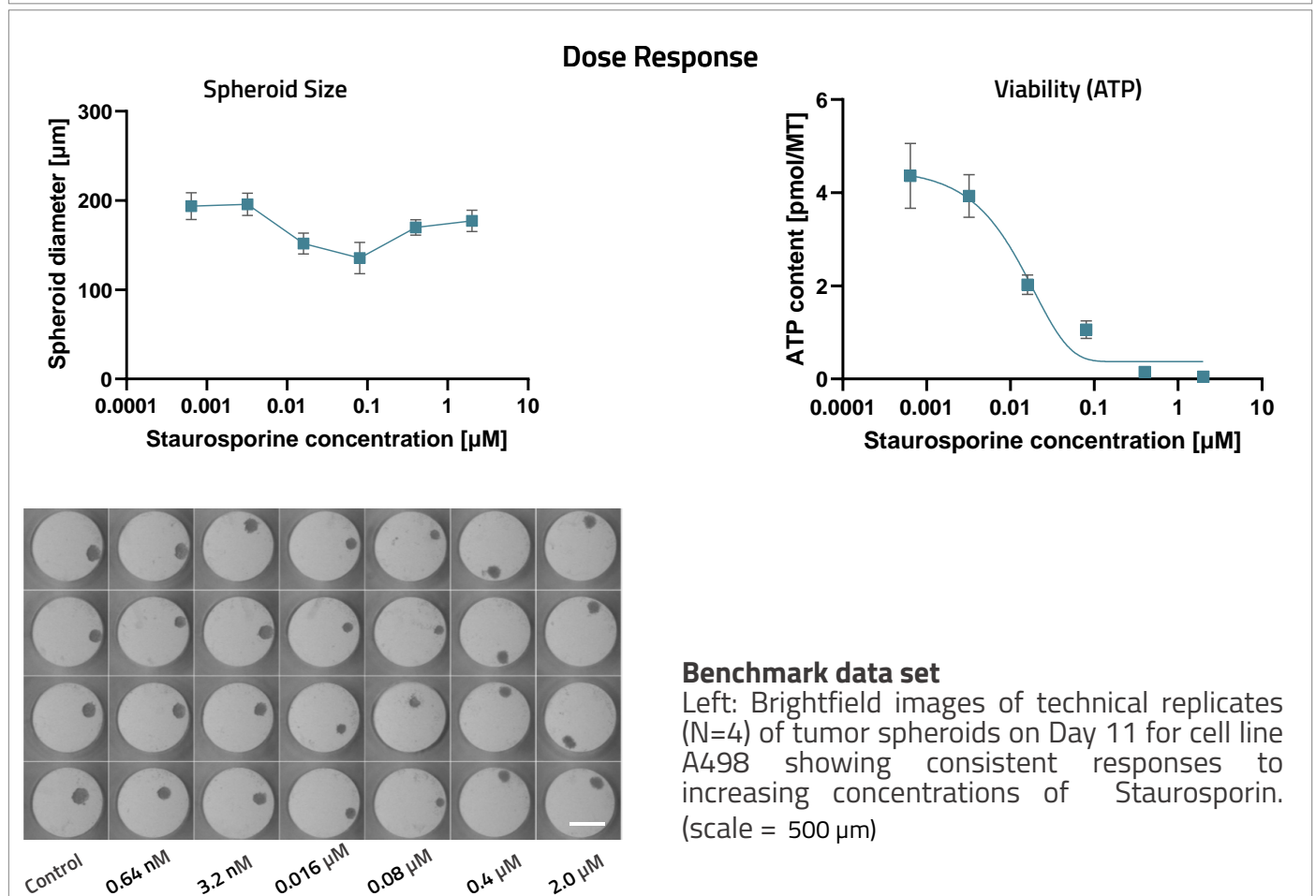
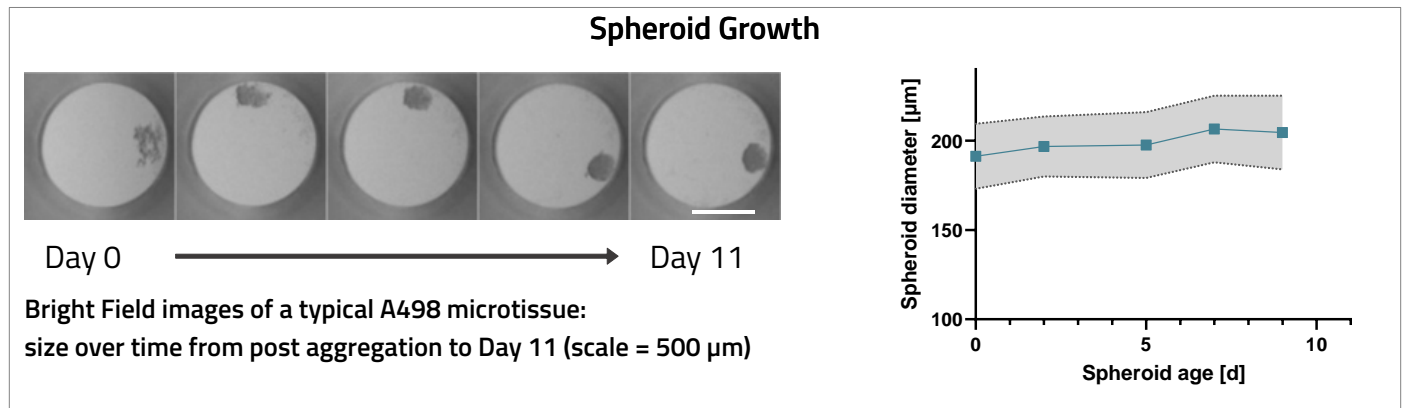
Cell Line	
Product category	Human cells
Organism	Homo sapiens, human
Morphology	epithelial
Tissue	Kidney
Disease	Carcinoma
Applications	3D cell culture Cancer research High-throughput screening Toxicology
Product format	Frozen
Storage conditions	-80 °C
Culture platform	Akura™ 96 Spheroid Microplate
Delivery 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	~190 µm
Assay specifications	
Assay window	Up to 11 days
Max. tissue size Day 10 (Growth window, Ø)	~210 µm (~20 µm)
Viability ATP (Day 10)	~4.5 pmol/MT
Max. Treatment response for size (Staurosporin, Ø)	130 - 210 µm
*Use recommended Re-aggregation Medium **Use Tumor Maintenance Medium	

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Reference data set

A498 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 A498 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 A498 showing consistent responses to increasing concentrations of Staurosporin. (scale = 500 µm)

Item #	Var. Code	Description
AT-NB00-0T0-001	A498	ARCTis™ Oncology - Kidney

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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