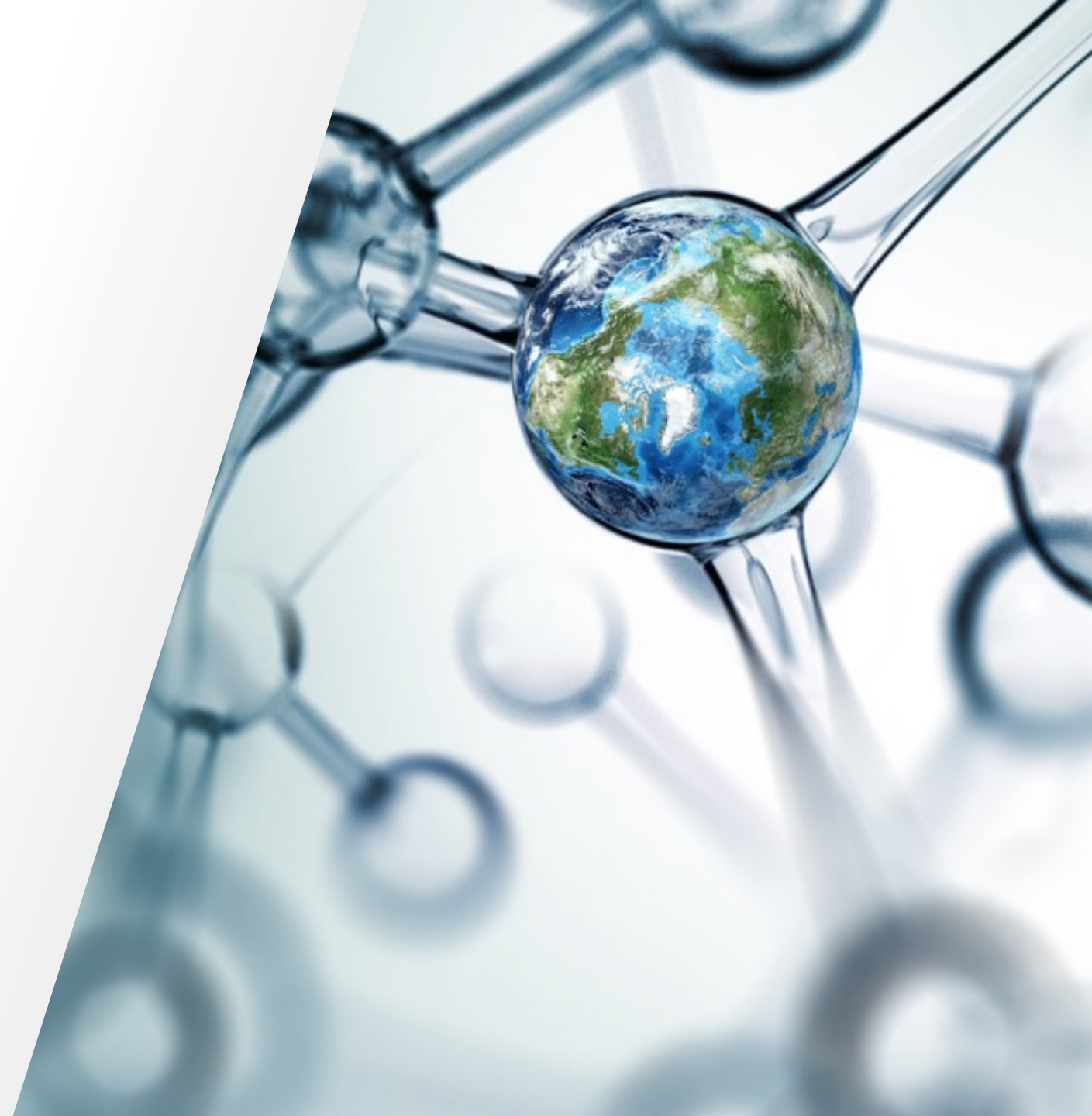


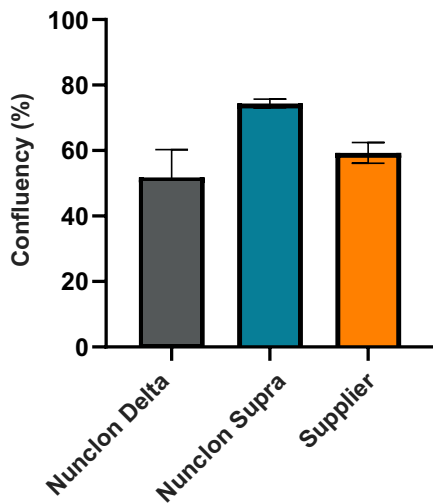
Nunclon Supra surface: cell compatibility data

 The world leader in serving science

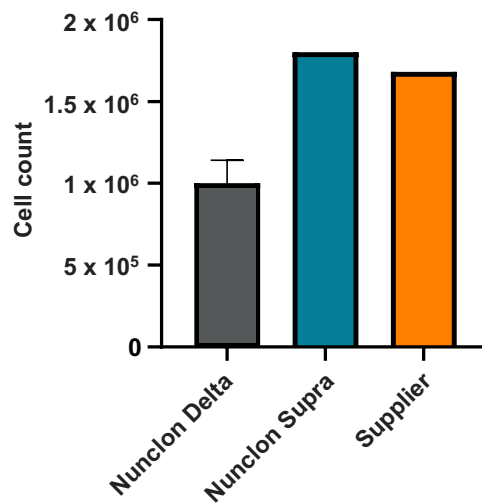


Human dermal fibroblasts, adult (HDFa)

Confluency

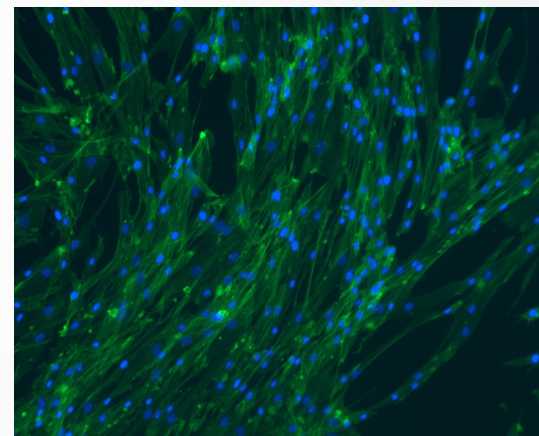


Cell yield

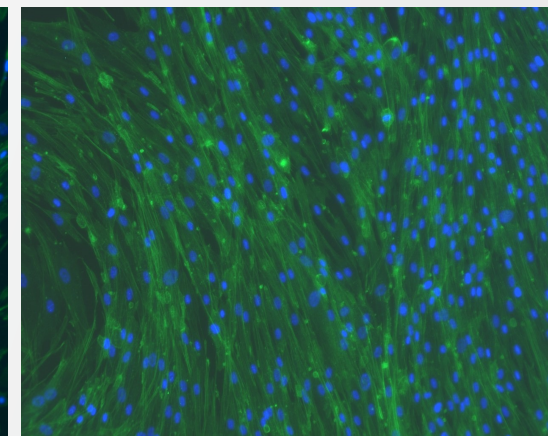


Morphology

Nunclon Delta



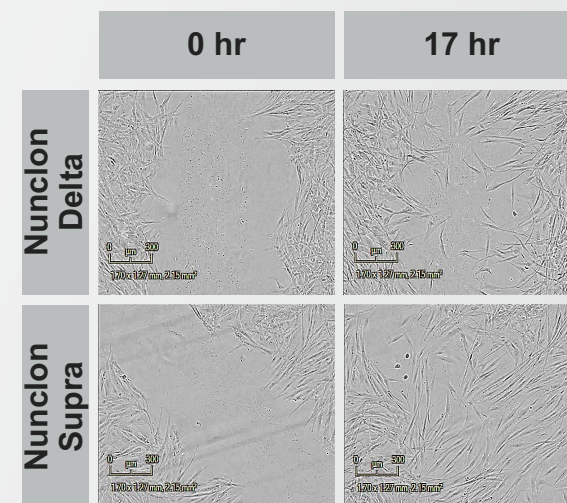
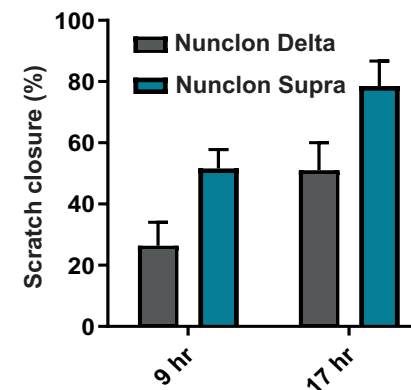
Nunclon Supra



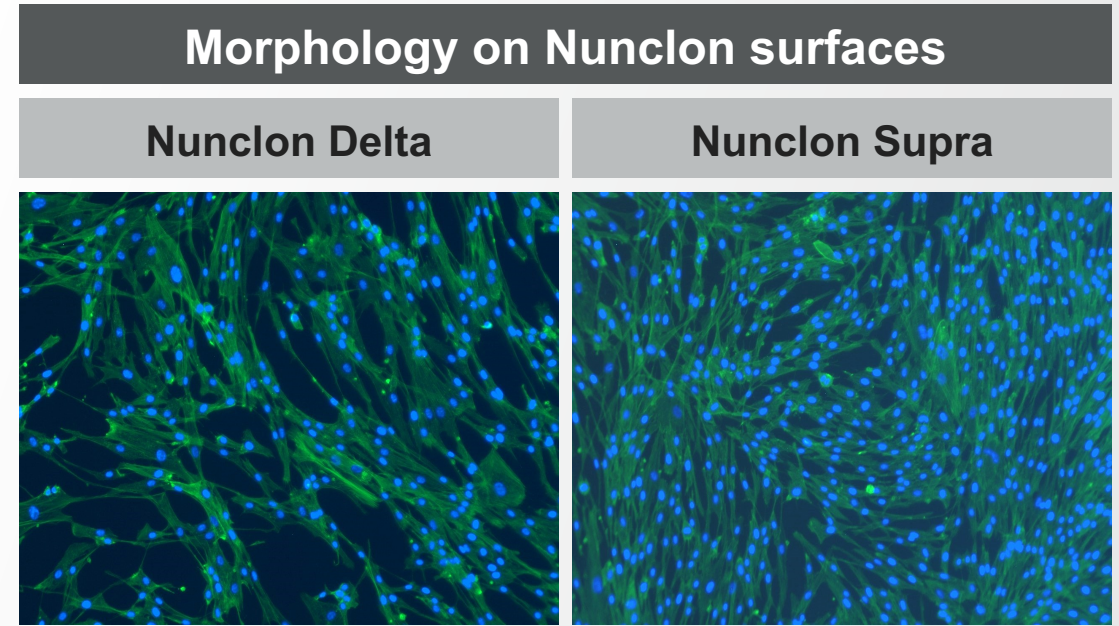
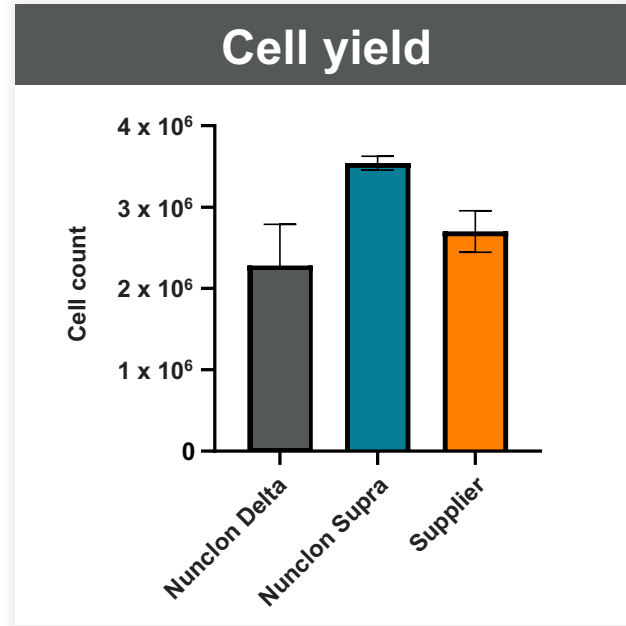
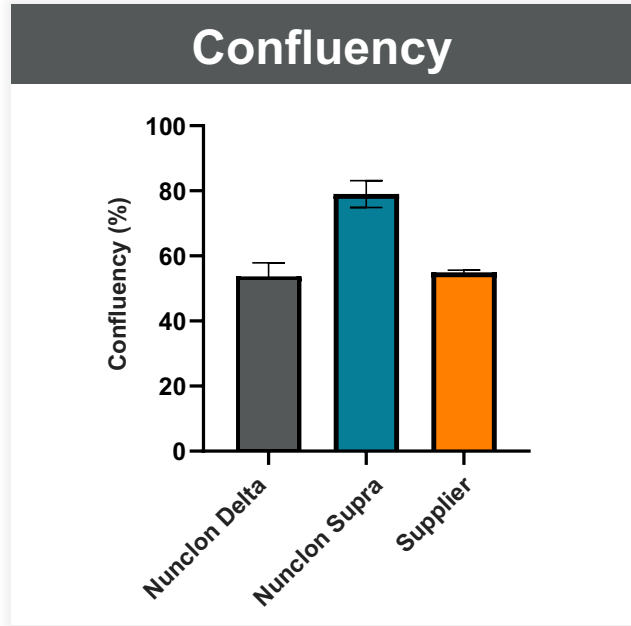
HDFa thrive on the Nunclon Supra cell culture surface.

HDFa cells were cultured on Thermo Scientific™ Nunclon™ Delta™, Supra™, and another supplier's surfaces. Culture on the Nunclon Supra surface resulted in higher confluency and cell yield than on the Nunclon Delta or another supplier's surface (N = 2 vessels, per bar). HDFa also demonstrated normal morphology via actin (green) organization on Nunclon Supra surfaces, while achieving higher confluency. A scratch assay resulted in faster closure for HDFa cells cultured on the Nunclon Supra surface (N = 3 wells, per bar, with 3–4 measurements per well).

Scratch assay

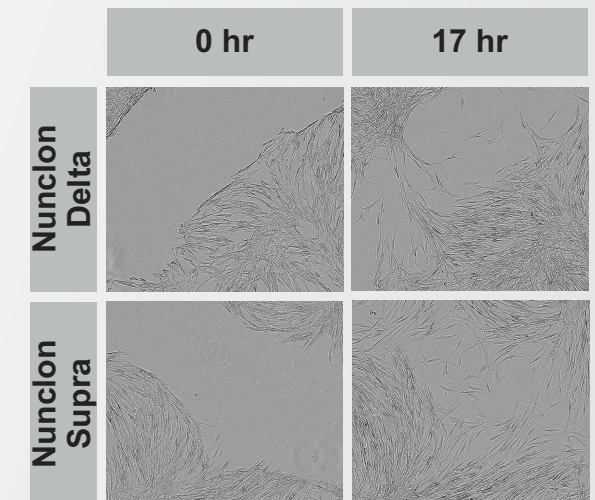
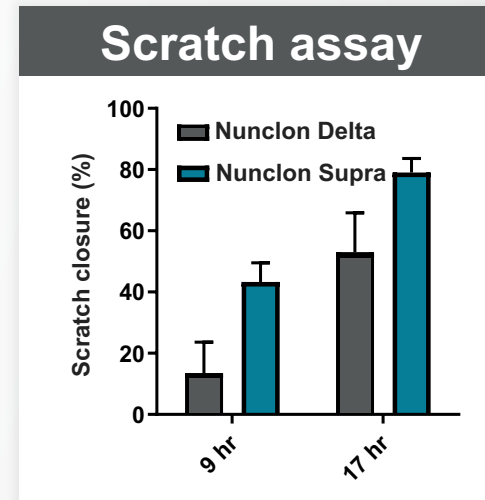


Human dermal fibroblasts, neonatal (HDFn)

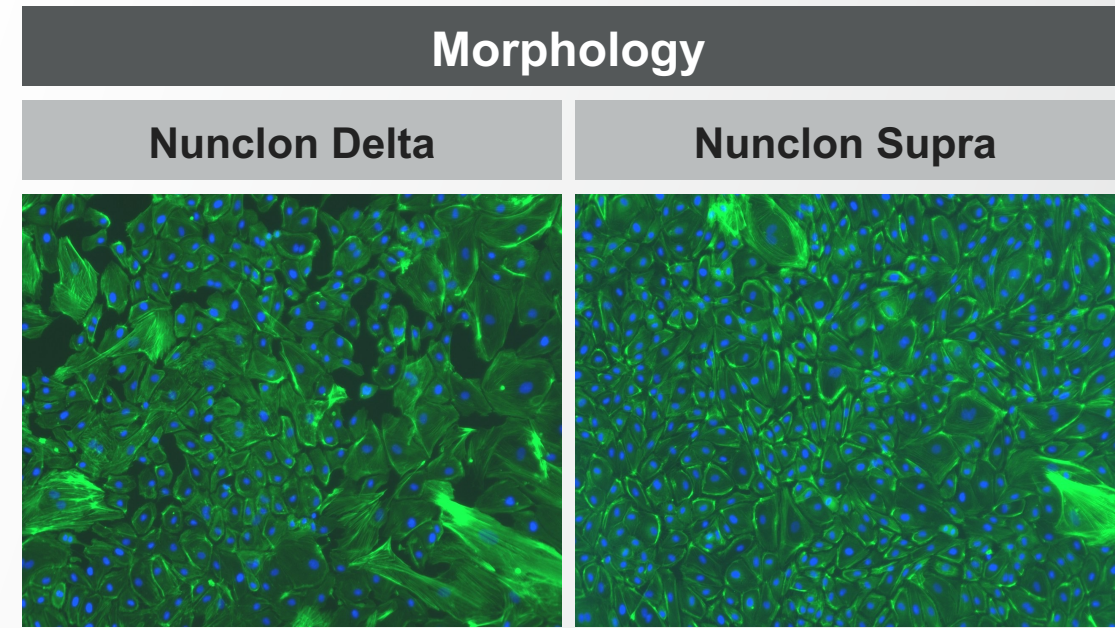
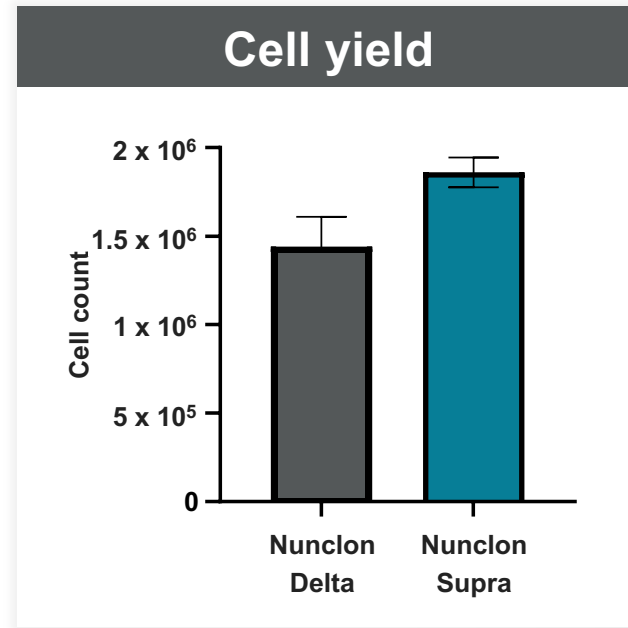
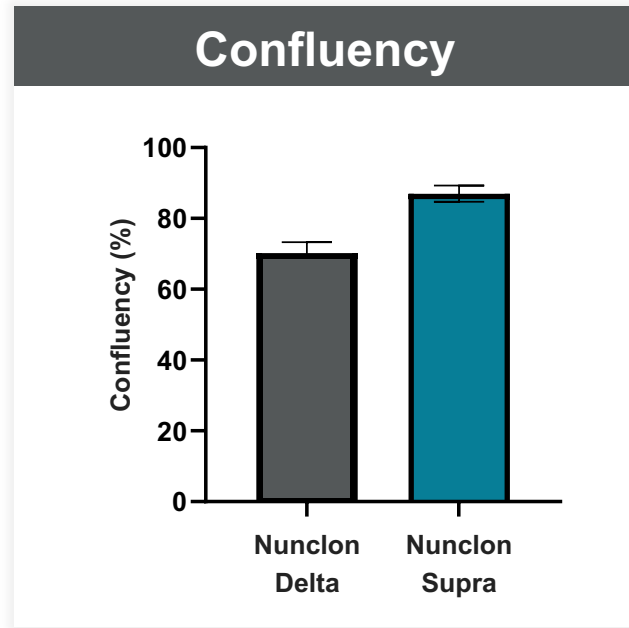


HDFn thrive on the Nunclon Supra cell culture surface.

HDFn cells were cultured on Nunclon Delta, Supra, and other supplier's surfaces. Culture on the Nunclon Supra surface resulted in higher confluency and cell yield than on the Nunclon Delta or another supplier's surface (N = 2 vessels, per bar). The cells also demonstrated normal morphology via actin (green) organization on the Nunclon Supra surface, while achieving higher confluency. A scratch assay resulted in faster closure for HDFn cells cultured on the Nunclon Supra surface (N = 3–4 wells, per bar, with 1–3 measurements per well).



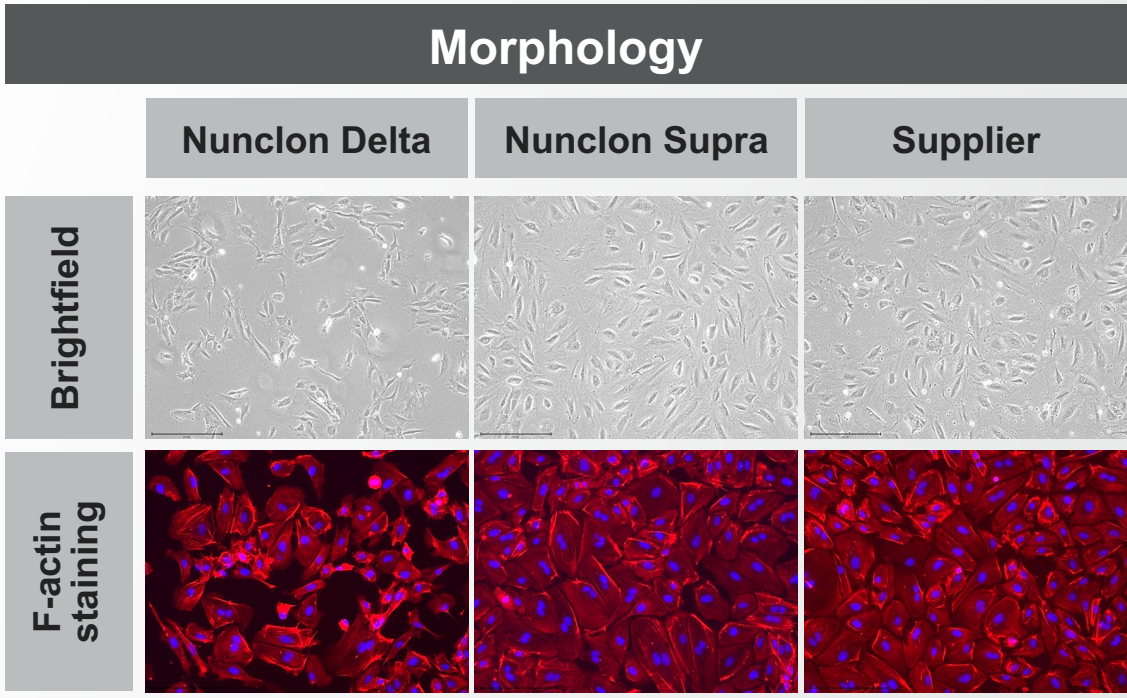
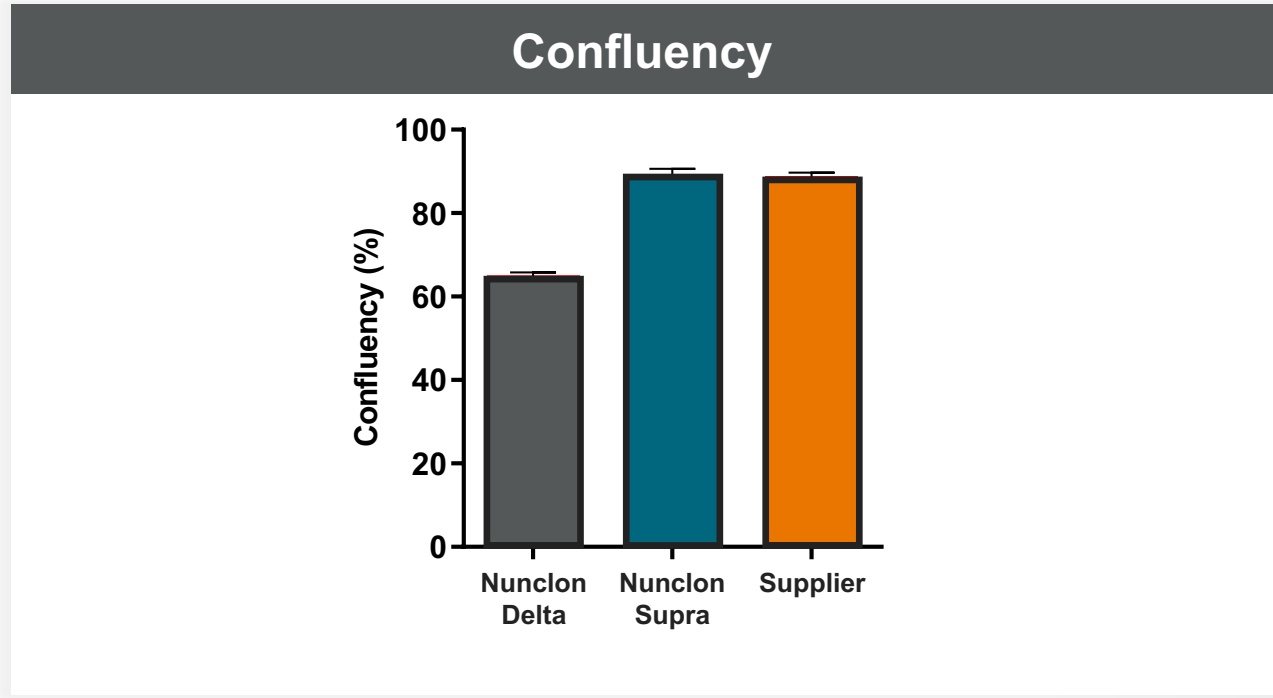
Human aortic endothelial cells (HAECs)



HAECs thrive on the Nunclon Supra cell culture surface.

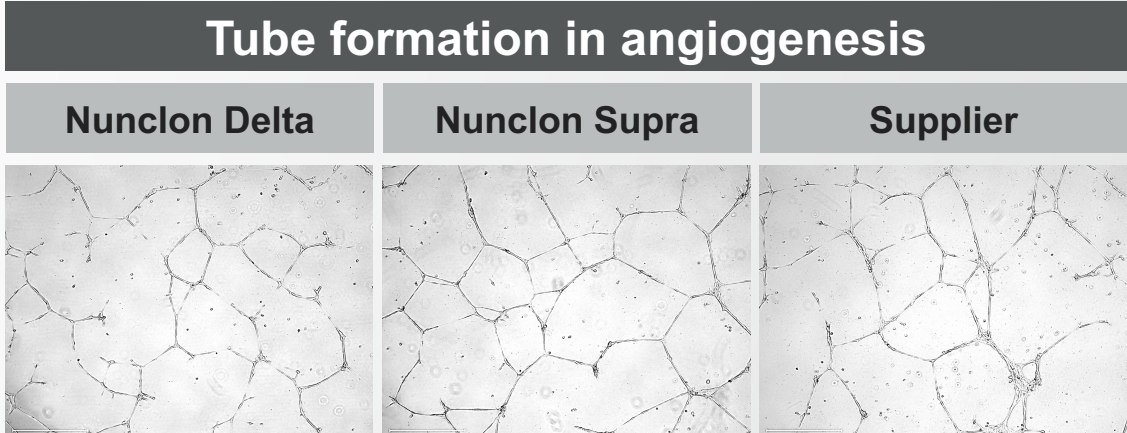
HAECs were cultured on Nunclon Delta, Supra, and other supplier's surfaces. Culture on the Nunclon Supra surface resulted in higher confluency and cell yield than on the Nunclon Delta or another supplier's surface (N = 2 vessels, per bar). The cells also demonstrated normal morphology via actin (green) organization on the Nunclon Supra surfaces while achieving higher confluency.

Human umbilical vein endothelial cells (HUVECs)



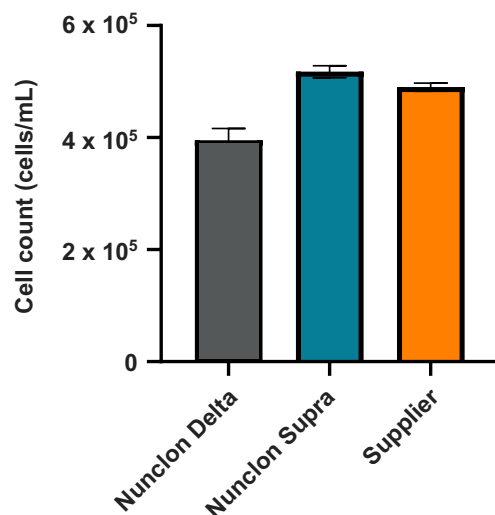
HUVECs grow exceptionally well on the Nunclon Supra cell culture surface.

HUVECs were cultured on Nunclon Delta, Supra, and another supplier's surfaces. Culture on the Nunclon Supra surface resulted in improved cell confluency compared to on the Nunclon Delta or another supplier's surface (N = 2). Also, the cells grown on the Nunclon Supra surface retained their tube-forming capability in angiogenesis.



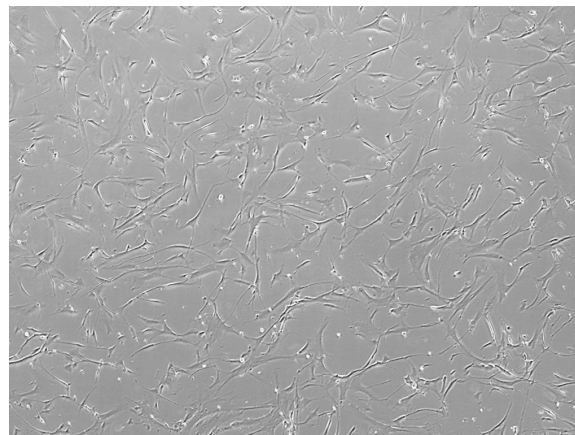
Human aortic smooth muscle cells

Cell yield

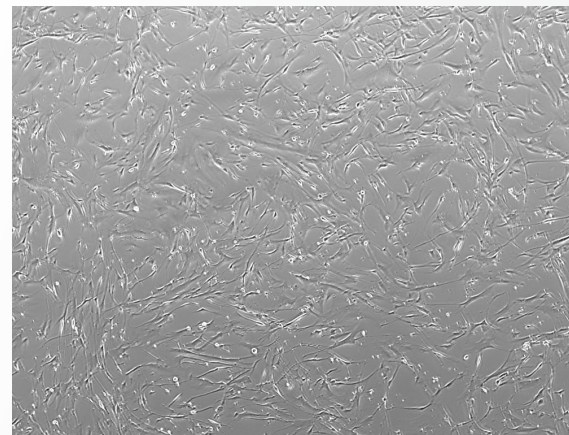


Morphology

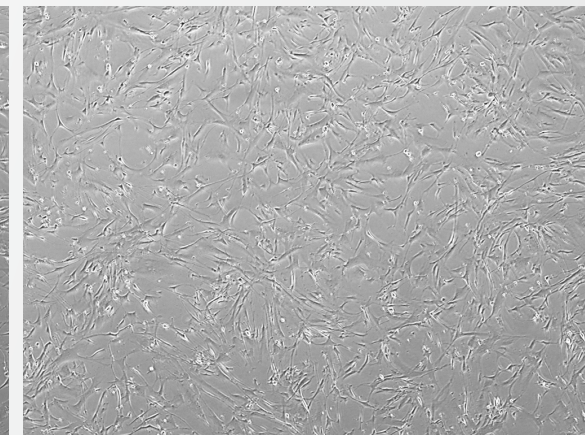
Nunclon Delta



Nunclon Supra



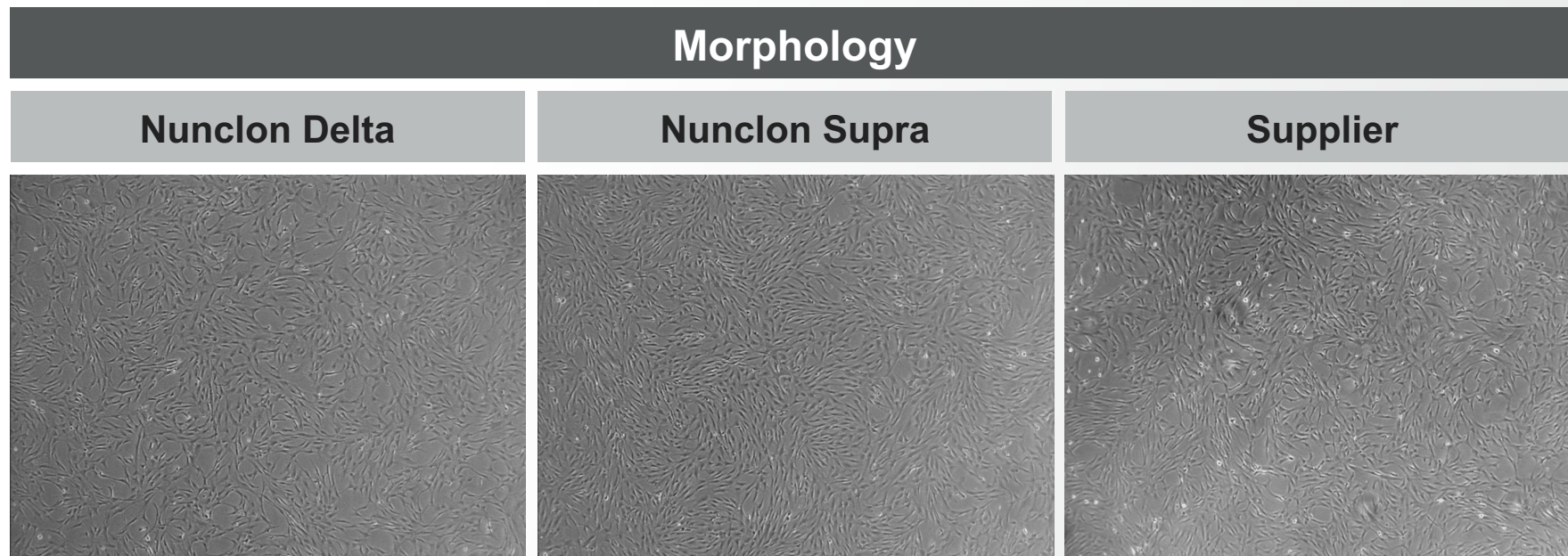
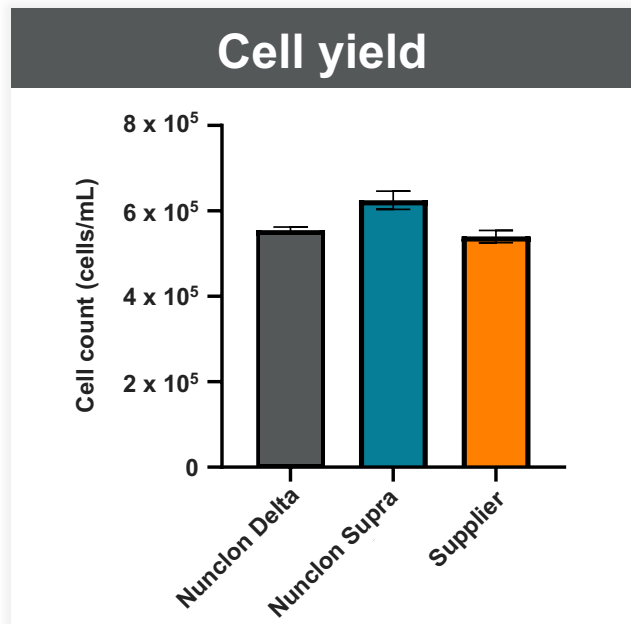
Supplier



Human aortic smooth muscle cells grow exceptionally well on the Nunclon Supra cell culture surface.

Human aortic smooth muscle cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in enhanced cell yield (N = 2 T-75 vessels, per bar) compared to on the Nunclon Delta and another supplier's surfaces. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta and another supplier's surfaces.

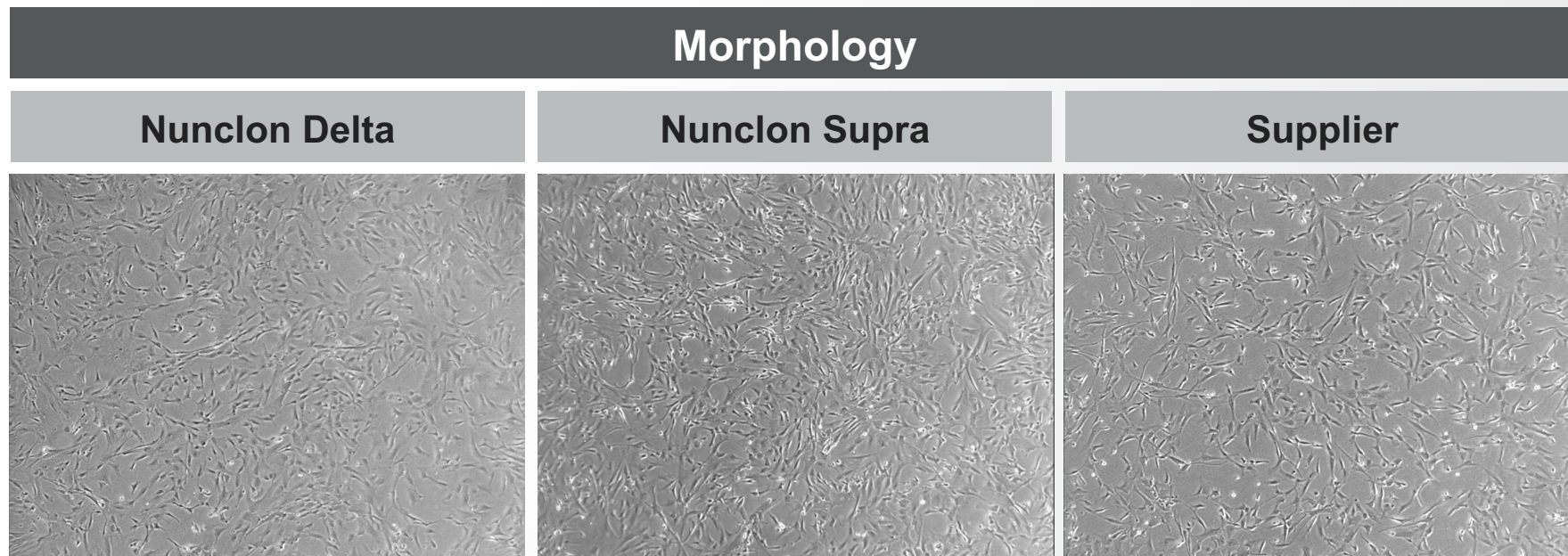
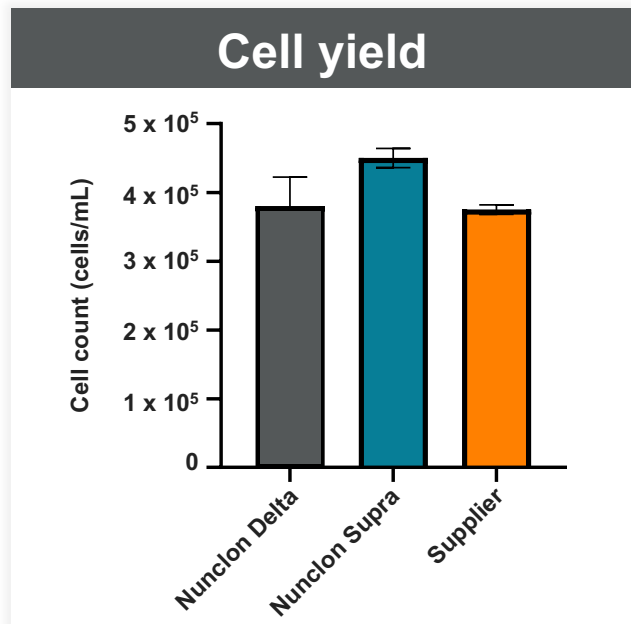
Human coronary artery smooth muscle cells



Human coronary artery smooth muscle cells are exceptional on the Nunclon Supra cell culture surface.

Human coronary artery smooth muscle cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in enhanced cell yield (N = 2 T-75 vessels, per bar) compared to on the Nunclon Delta and another supplier's surfaces. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta and another supplier's surfaces.

Human pulmonary artery smooth muscle cells

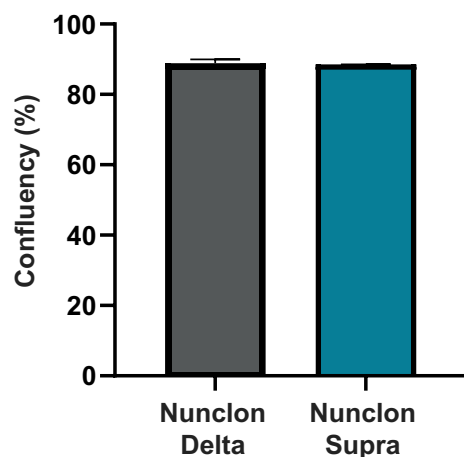


Human pulmonary artery smooth muscle cells are exceptional on the Nunclon Supra cell culture surface.

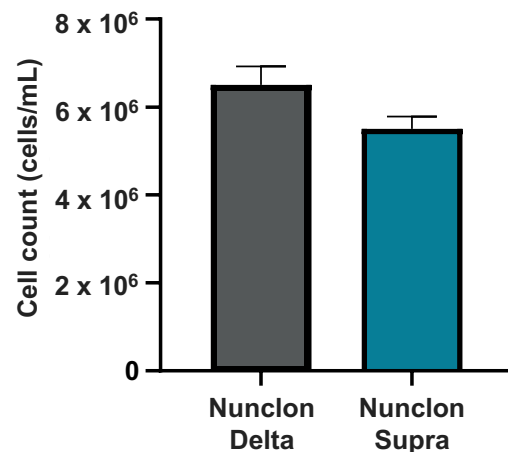
Human pulmonary artery smooth muscle cells were cultured on Nunclon Delta and Nunclon Supra surfaces. Culture on the Nunclon Supra surface resulted in enhanced cell yield (N = 2 T-75 vessels, per bar) compared to on the Nunclon Delta and another supplier's surfaces. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta and another supplier's surfaces.

Human mammary epithelial cells (HMECs)

Confluency

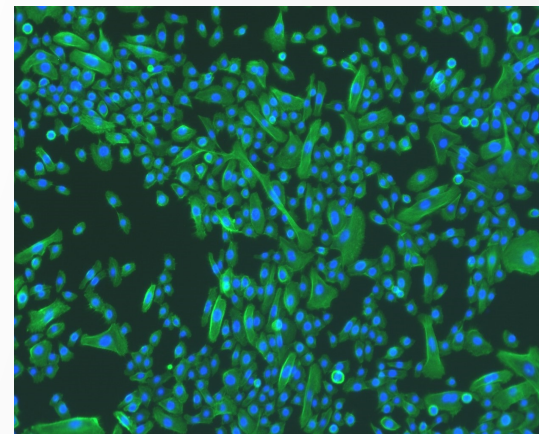


Cell yield

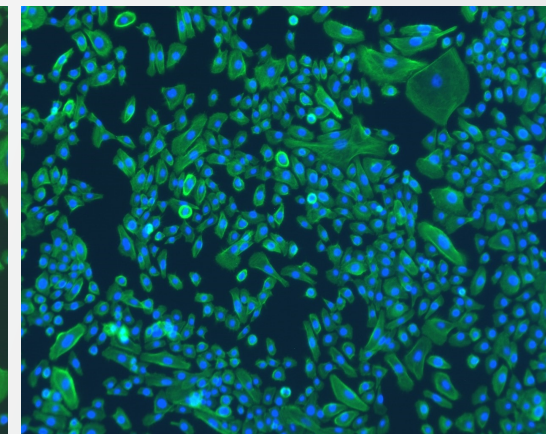


Morphology

Nunclon Delta



Nunclon Supra



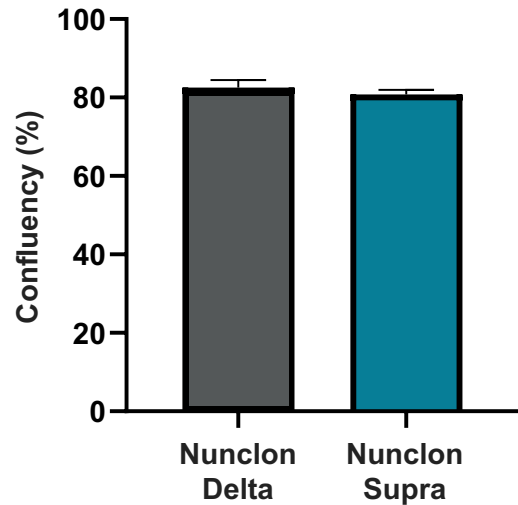
HMECs are compatible with the Nunclon Supra cell culture surface.

HMECs were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency and cell yield compared to on the Nunclon Delta surface (N = 2 vessels, per bar).

The cells also demonstrated normal morphology via actin (green) organization on the Nunclon Supra surface compared to on the Nunclon Delta surface.

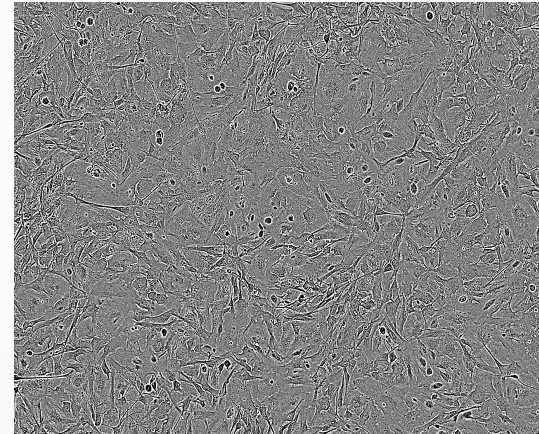
Human astrocytes

Confluency

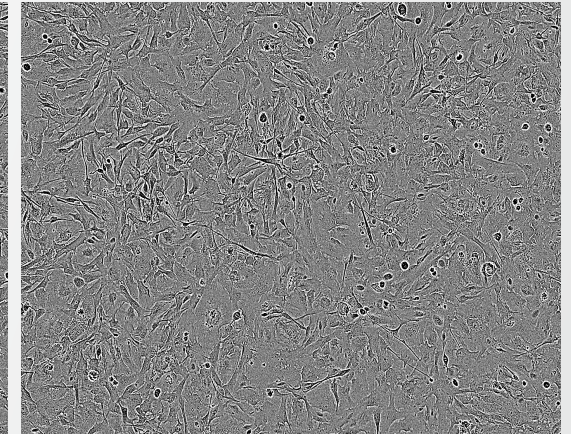


Morphology

Nunclon Delta



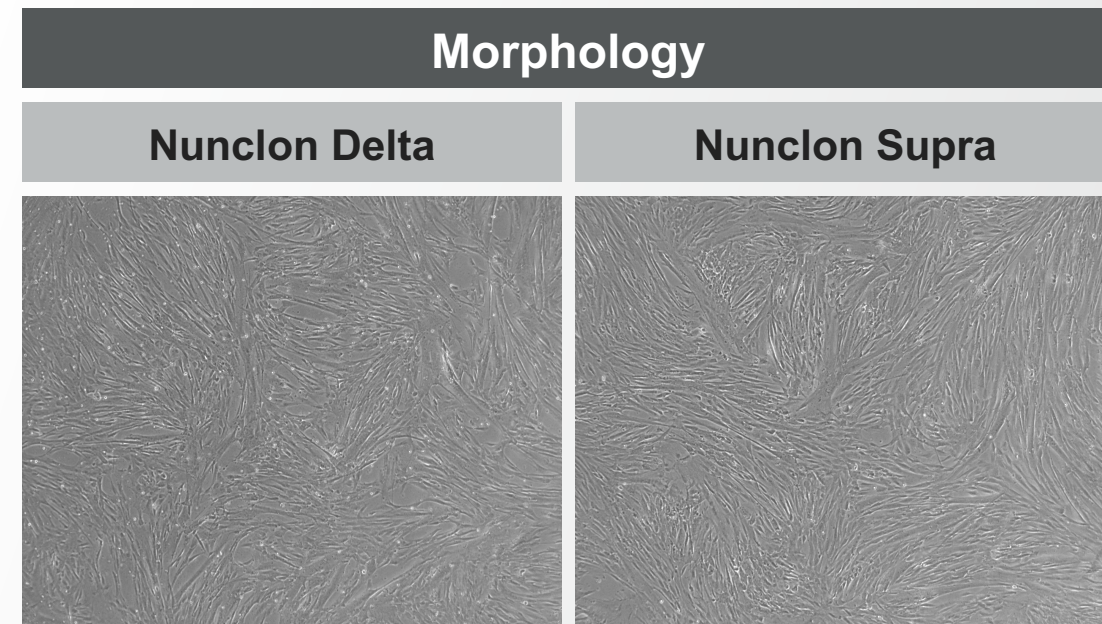
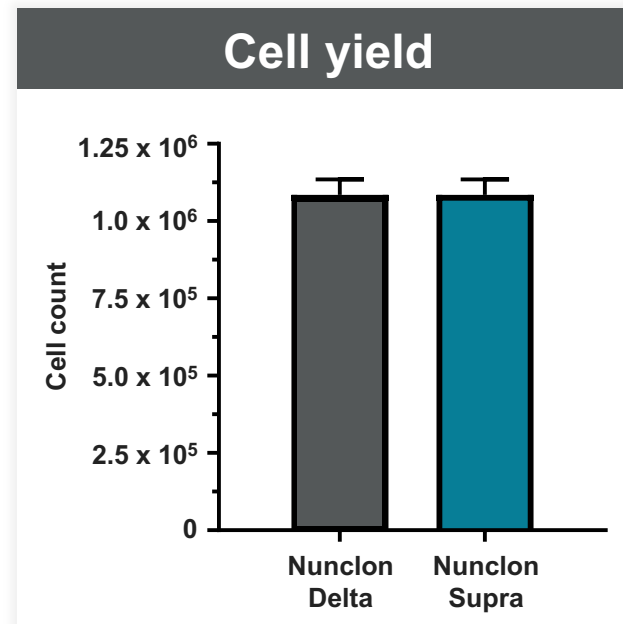
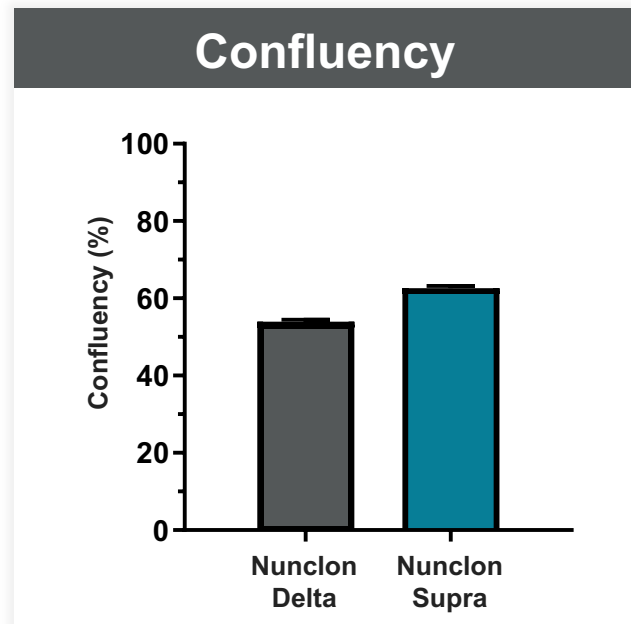
Nunclon Supra



Human astrocytes are compatible with the Nunclon Supra cell culture surface.

Astrocytes were cultured on Nunclon Delta and Supra surfaces with Gibco™ Geltrex™ matrix coating. Culture on the Nunclon Supra surface resulted in equivalent confluency compared to on the Nunclon Delta surface (N = 3 wells, per bar). The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

Human skeletal myoblasts (HSkMs)

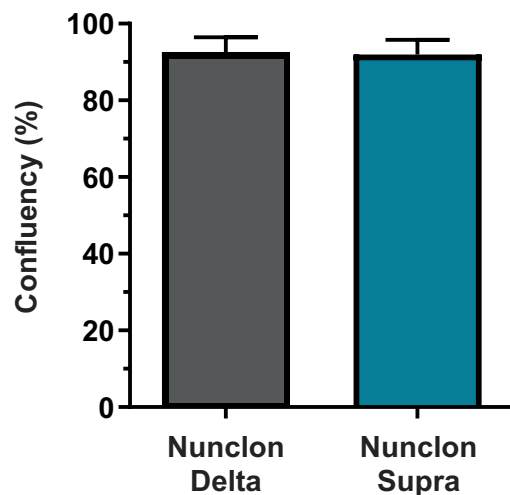


HSkMs are compatible with the Nunclon Supra cell culture surface.

HSkMs were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in improved confluency but equivalent cell yield compared to on the Nunclon Delta surface (N = 2 wells, per bar). The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

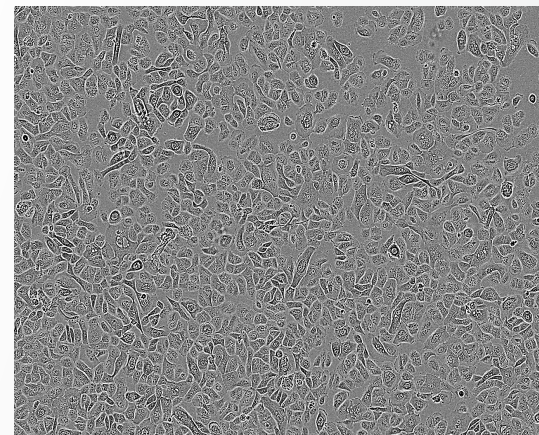
Normal human bronchial epithelial (NHBE) cells

Confluency

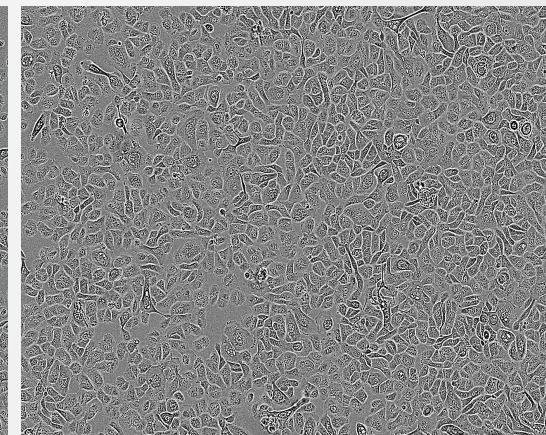


Morphology

Nunclon Delta



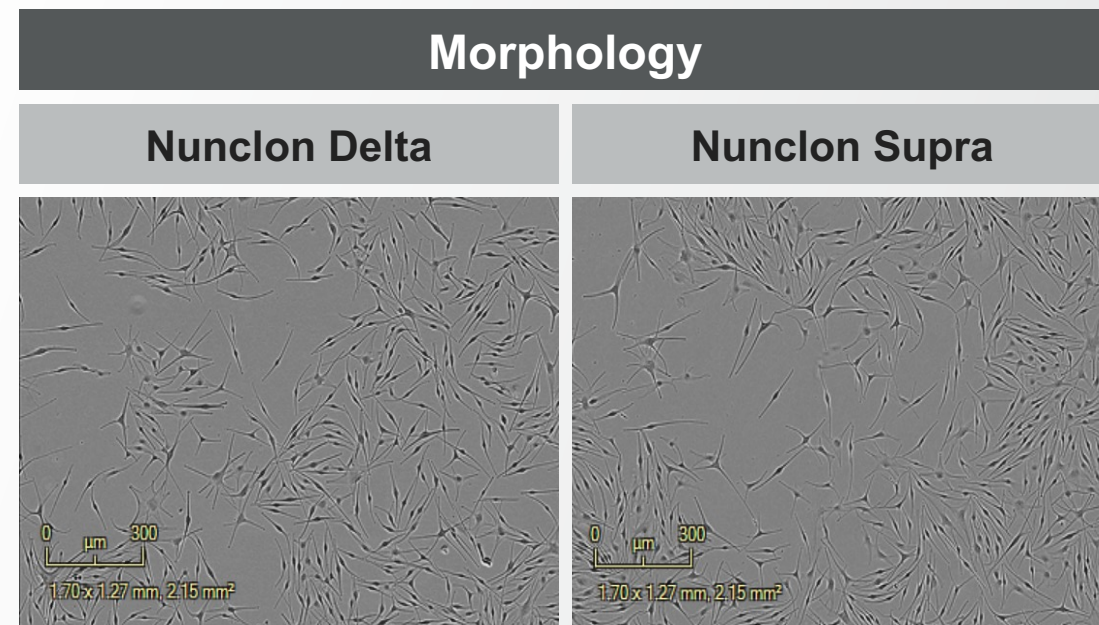
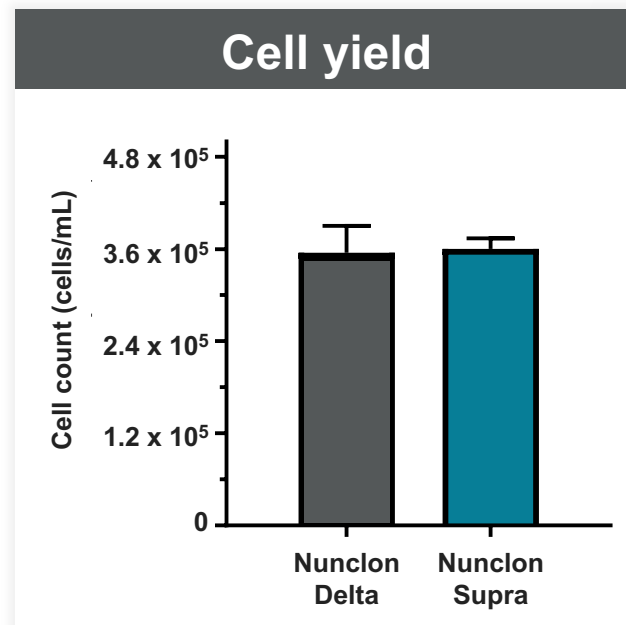
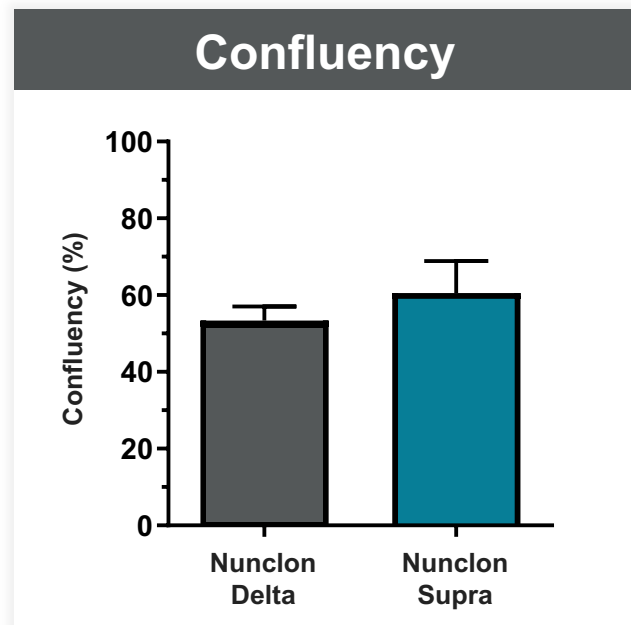
Nunclon Supra



NHBE cells are compatible with the Nunclon Supra cell culture surface.

NHBE cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 6 wells, per bar) compared to on the Nunclon Delta surface. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

Human epidermal melanocytes, neonatal, light pigmentation

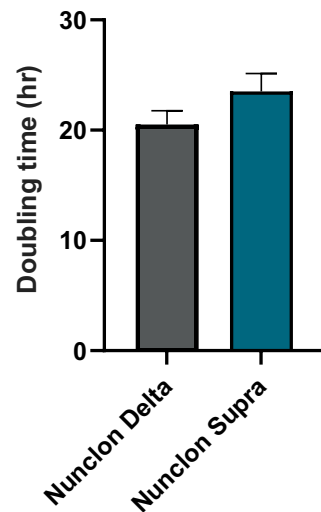


Human epidermal melanocytes are compatible with the Nunclon Supra cell culture surface.

Human epidermal melanocytes (neonatal, light pigmentation) were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency and cell counts (N = 2 T-75 flasks, per bar) compared to on the Nunclon Delta surface. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

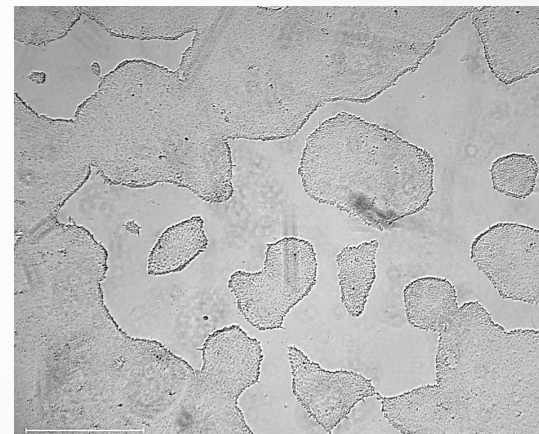
Induced pluripotent stem cells (iPSCs)

Doubling time

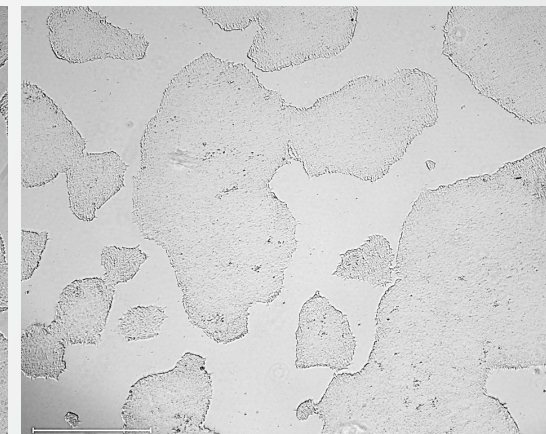


Morphology

Nunclon Delta



Nunclon Supra

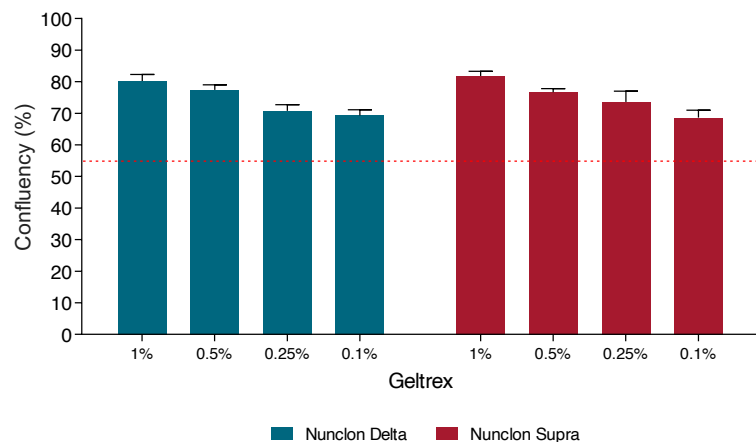


iPSCs are compatible with the Nunclon Supra cell culture surface.

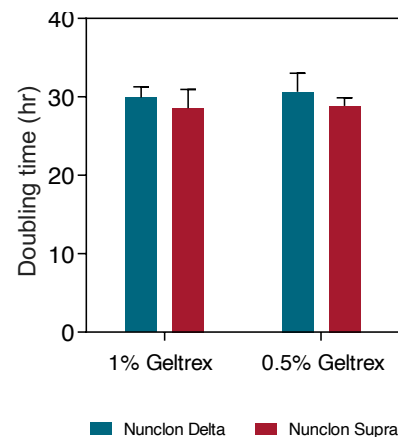
iPSCs were cultured on Nunclon Delta and Supra surfaces coated with 1% Geltrex matrix. Culture on the Nunclon Supra surface resulted in equivalent cell growth and morphology compared to on the Nunclon Delta surface.

Neural stem cells (NSCs)

Confluency

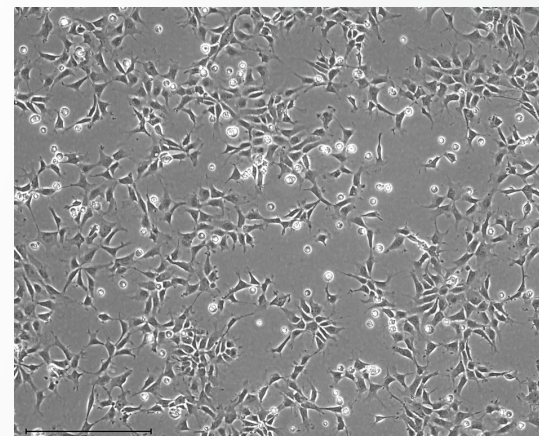


Doubling time

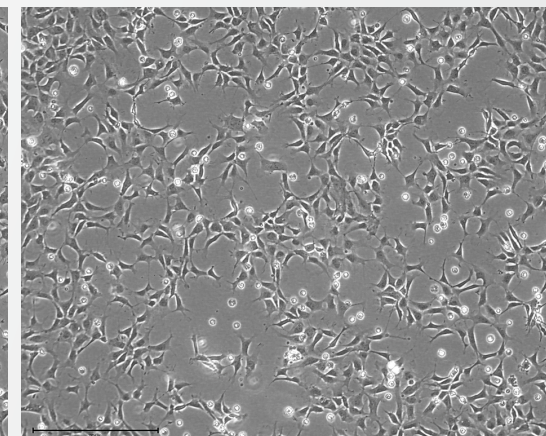


Morphology

Nunclon Delta



Nunclon Supra

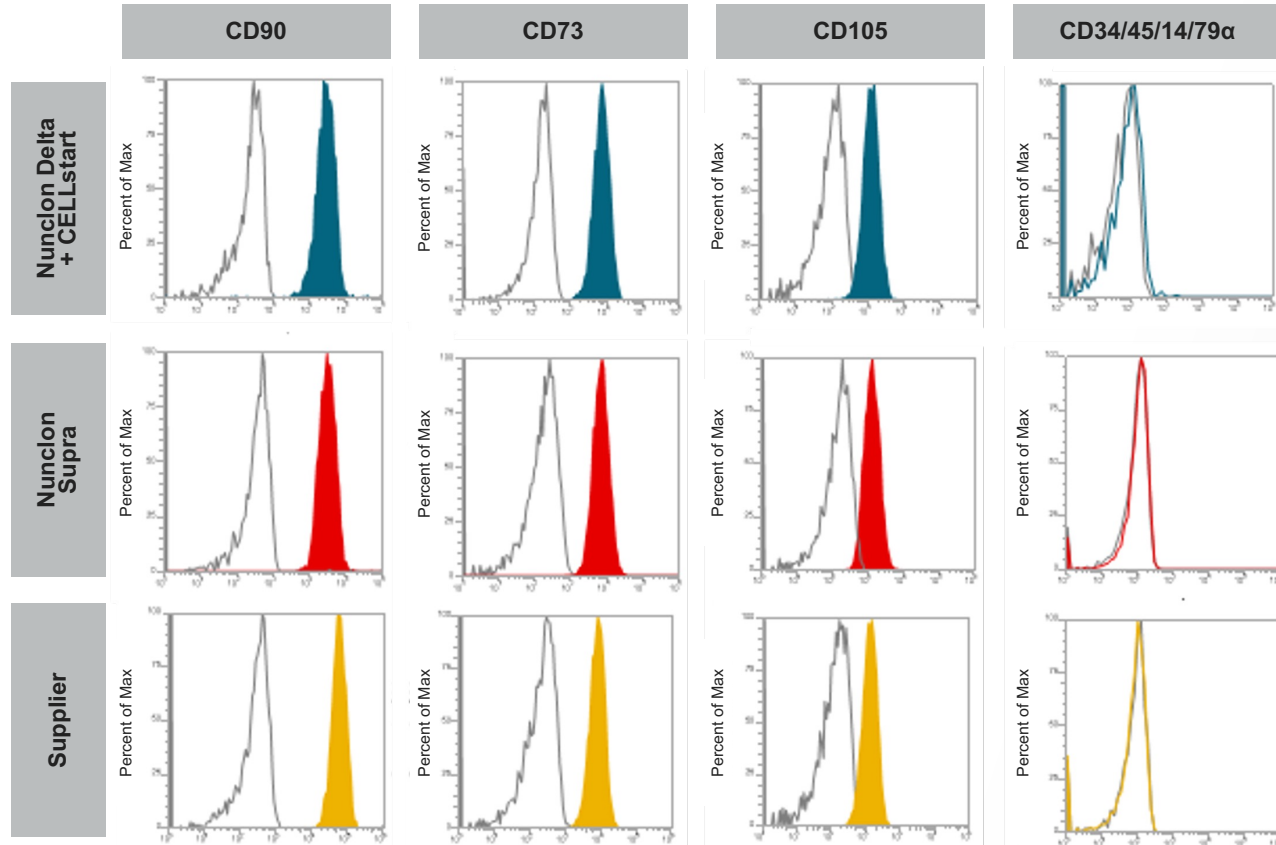


NSCs are compatible with the Nunclon Supra cell culture surface.

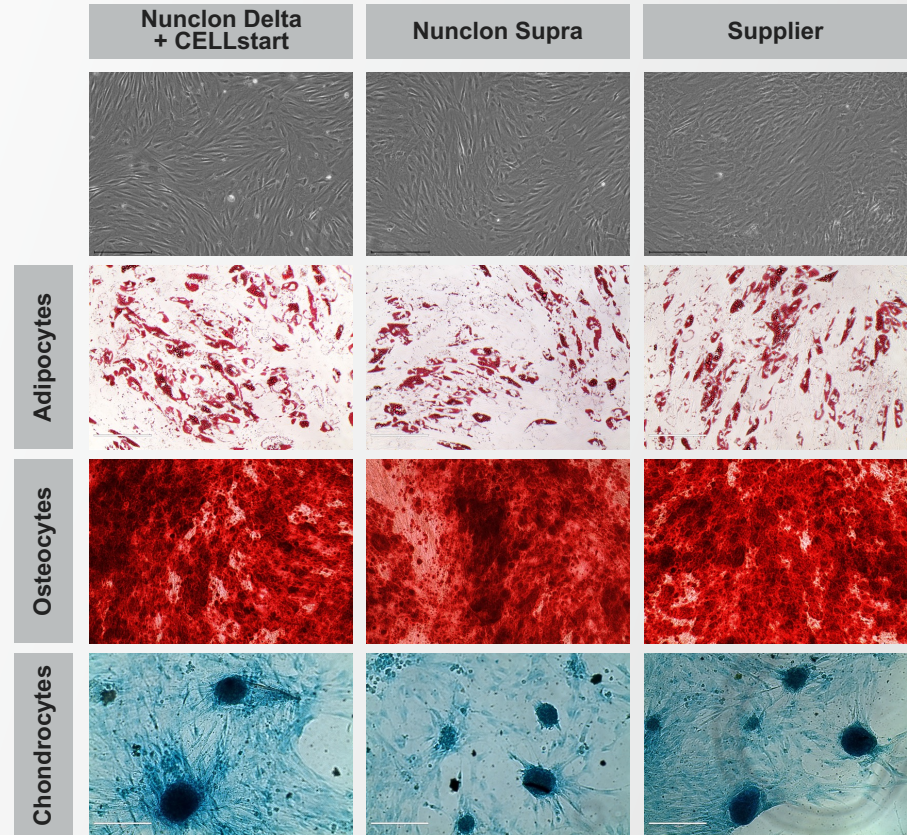
NSCs were cultured on Nunclon Delta, Supra, and another supplier's surfaces coated with 1% Geltrex matrix. Culture on the Nunclon Supra surface resulted in equivalent cell growth and morphology compared on to the Nunclon Delta surface. N = 3.

Adipose tissue-derived mesenchymal stromal cells (ADSCs)

Phenotype



Morphology and differentiation

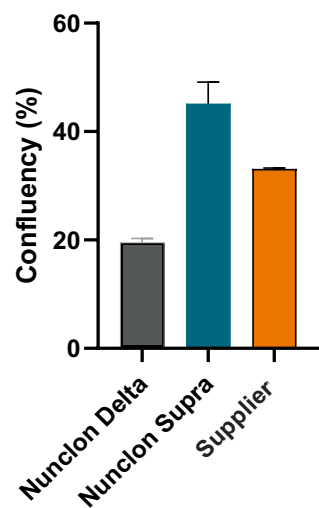


The Nunclon Supra cell culture surface supports ADSC growth under serum-free and coating-free conditions

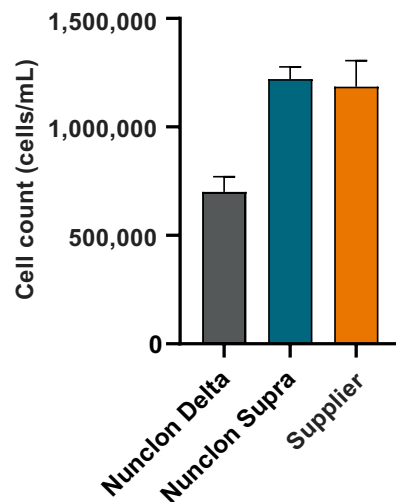
ADSCs cultured on uncoated Nunclon Supra performed equivalently to those grown on Nunclon Delta surface coated with Gibco™ CELLstart™ substrate with respect to morphology, cell growth, phenotype, and trilineage differentiation potential. CD90, CD73, and CD105 are positive markers for ADSCs. CD34, CD45, CD14, and CD79α are negative markers for ADSCs.

Lymph node carcinoma of the prostate (LNCaP)

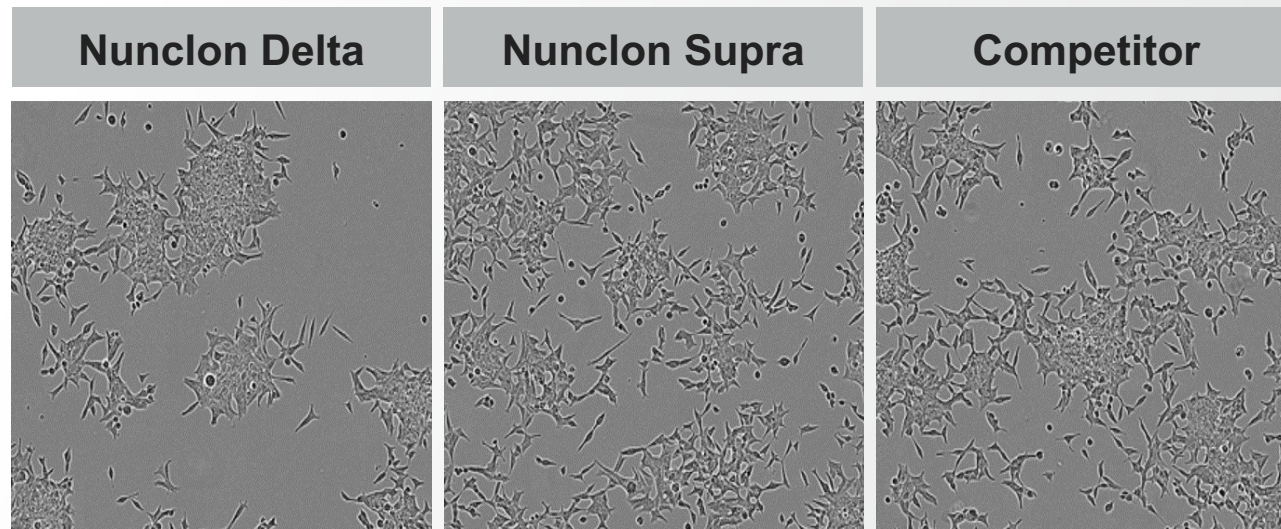
Confluency



Cell yield



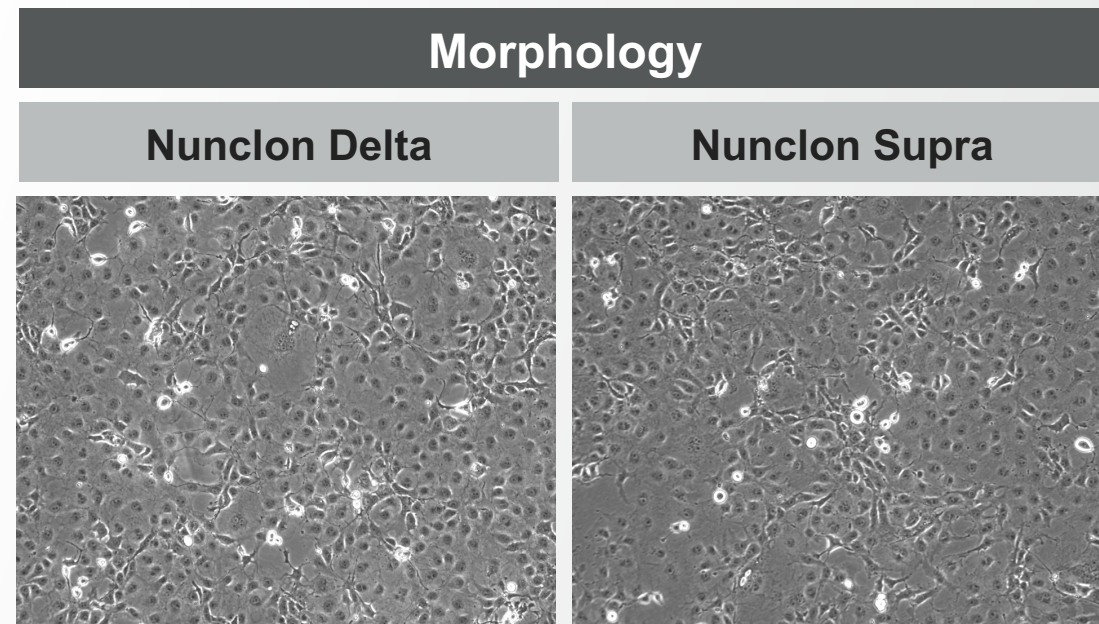
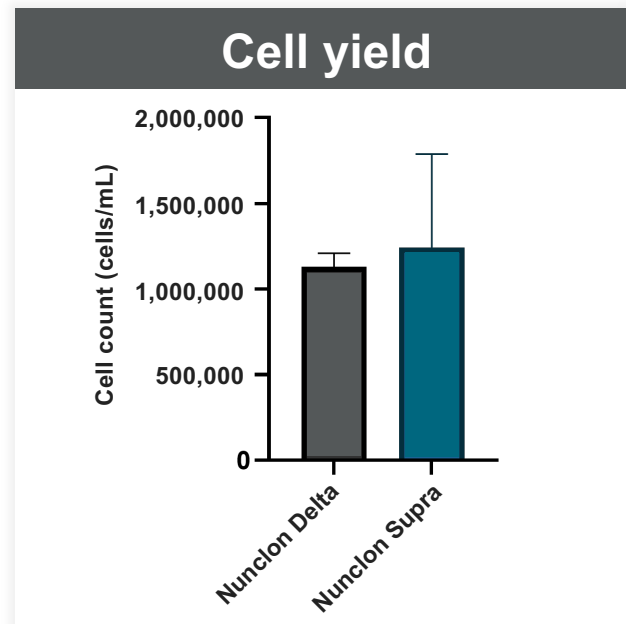
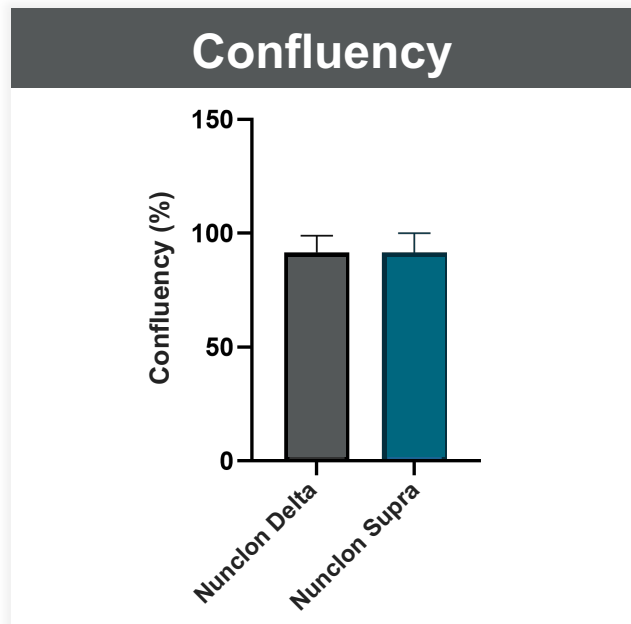
Morphology



LNCaP cells have better morphology on the Nunclon Supra cell culture surface.

LNCaP cells were seeded onto 6-well Nunclon Delta, Supra, and another supplier's dishes. Cells showed better confluency and morphology (less clumping) on the Nunclon Supra surface compared to on the Nunclon Delta and another supplier's surfaces. N = 2.

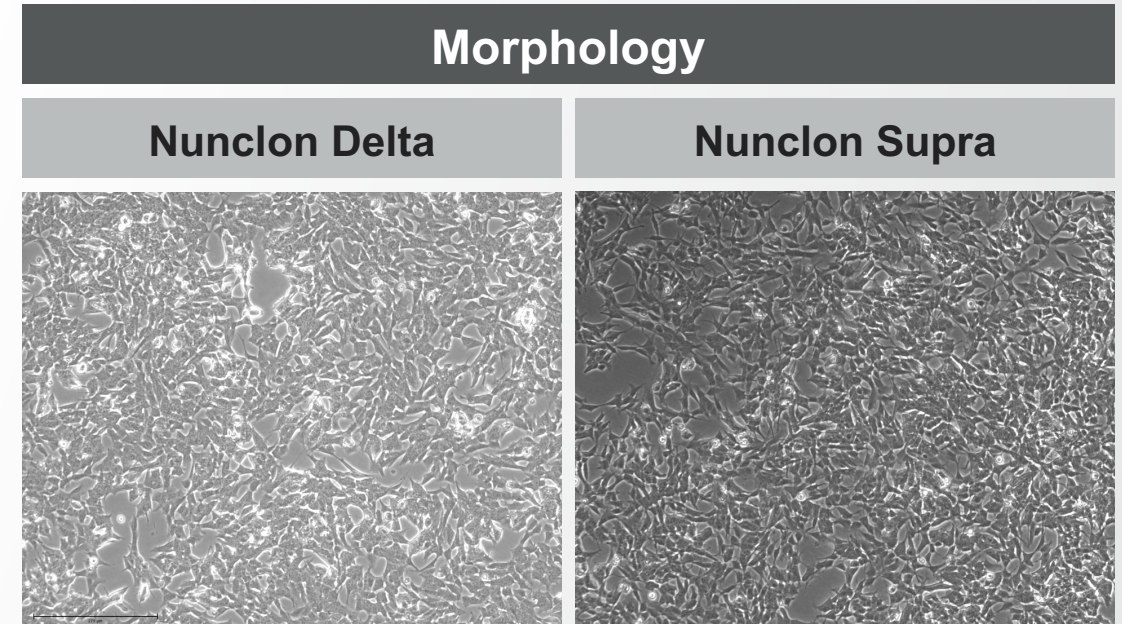
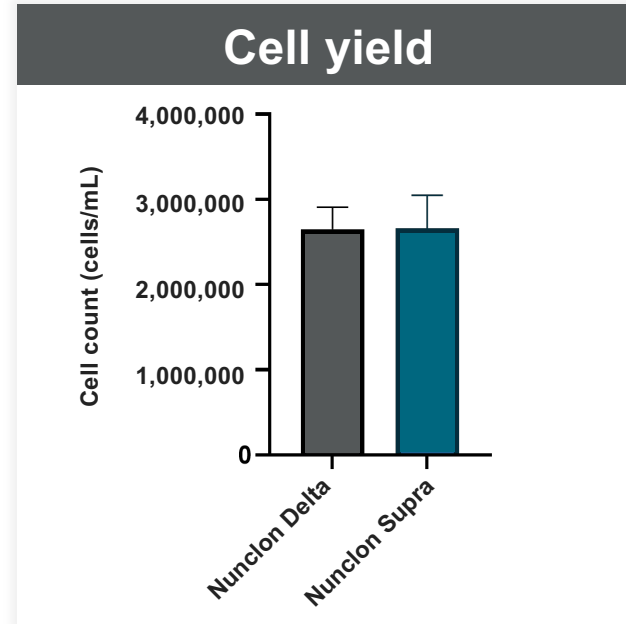
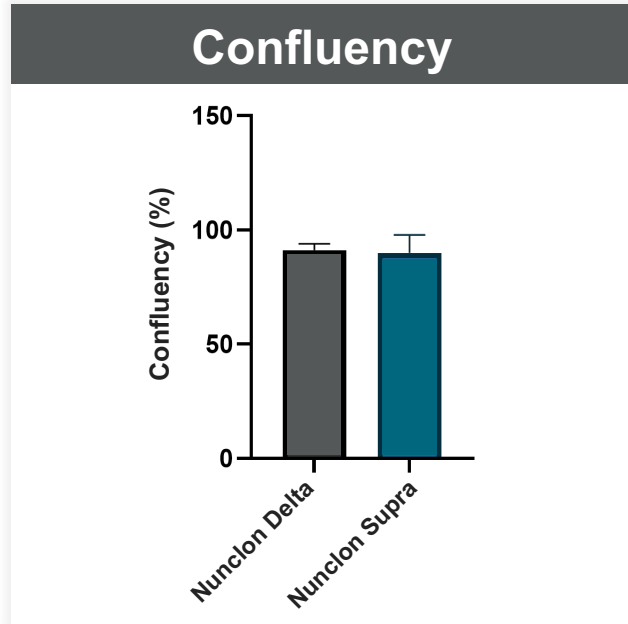
CV-1 in origin with SV40 genes (COS7)



COS7 cells are compatible with the Nunclon Supra cell culture surface.

COS7 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 4 wells, per bar) compared to on the Nunclon Delta surface.

Furthermore, there was no significant difference in cell yield between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

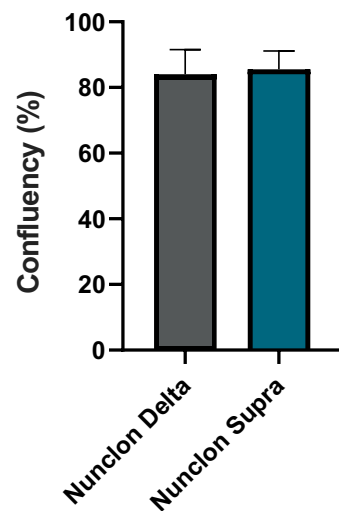


SH-SY5Y cells are compatible with the Nunclon Supra cell culture surface.

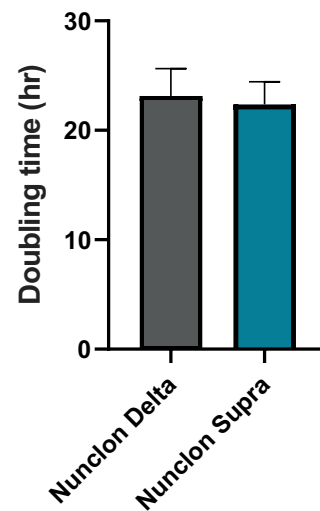
SH-SY5Y cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 4 wells, per bar) compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in cell yield between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

NIH3T3 mouse fibroblasts

Confluency

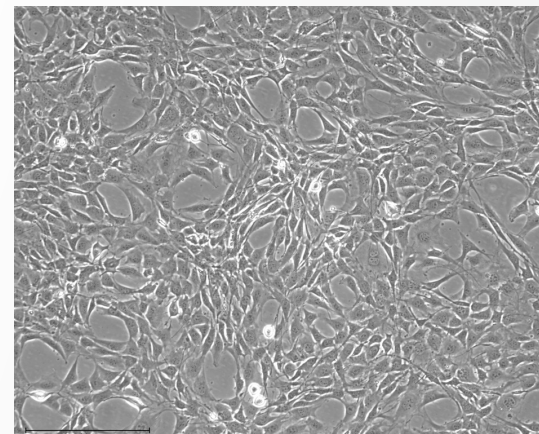


Doubling time

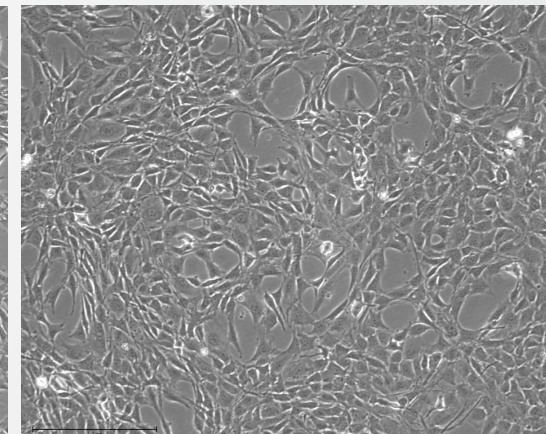


Morphology

Nunclon Delta



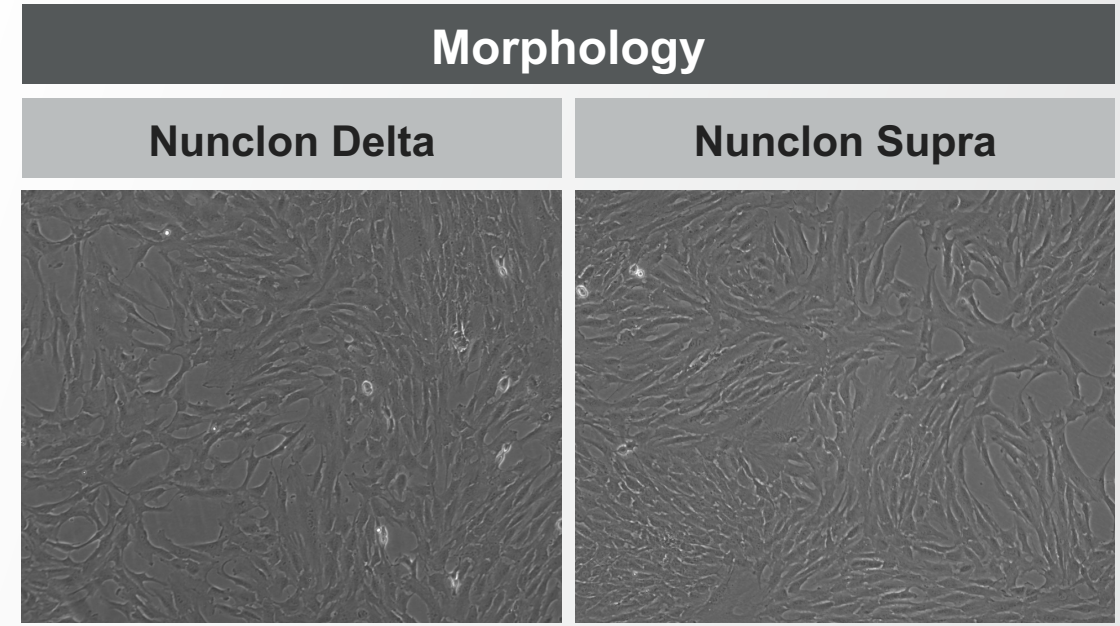
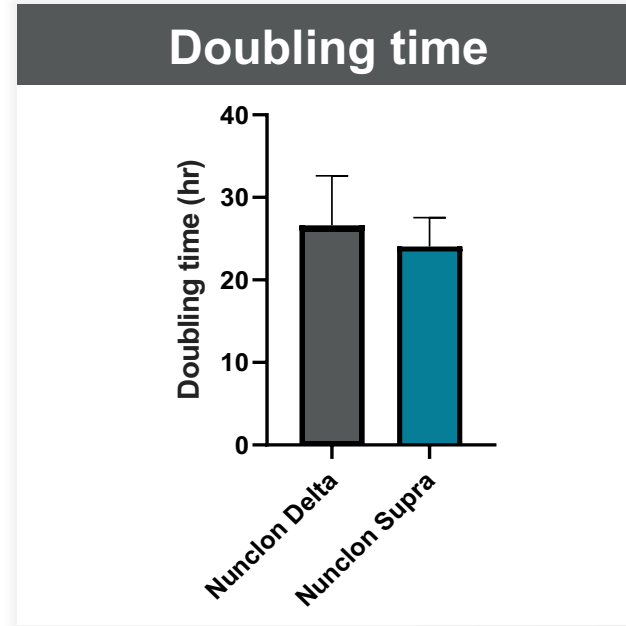
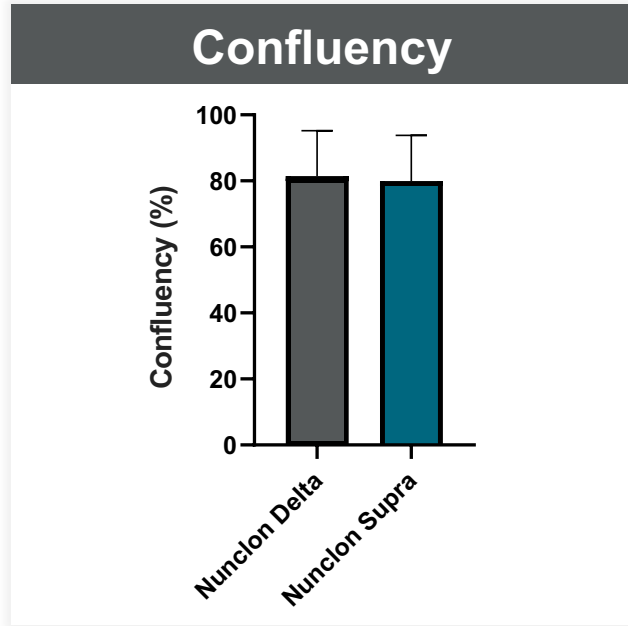
Nunclon Supra



NIH3T3 cells are compatible with the Nunclon Supra cell culture surface.

NIH3T3 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent cell growth and morphology compared to on the Nunclon Delta surface.

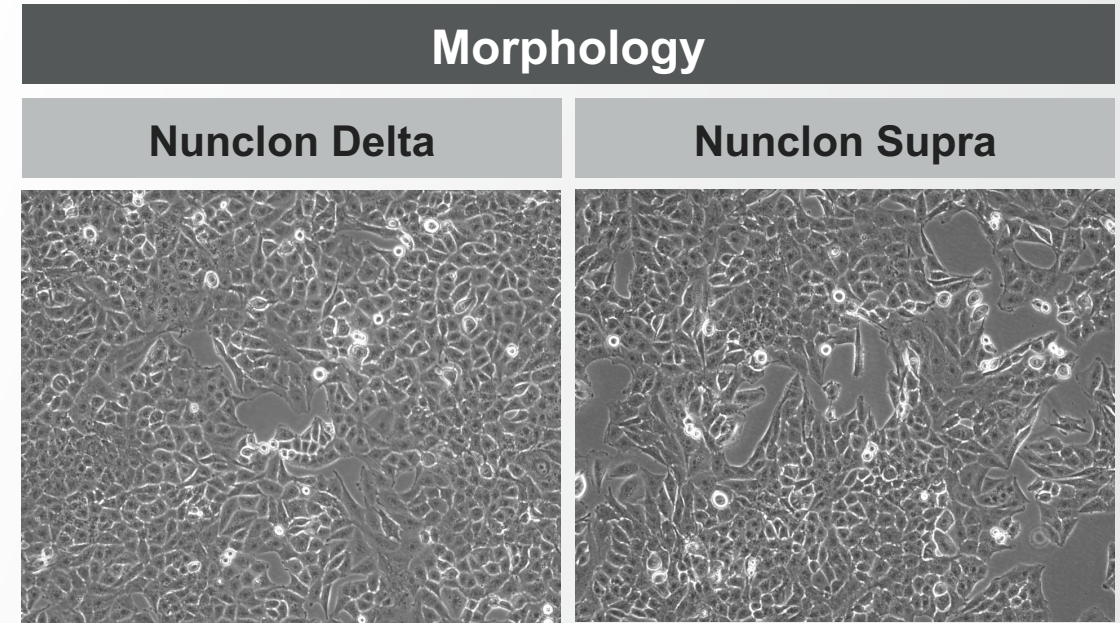
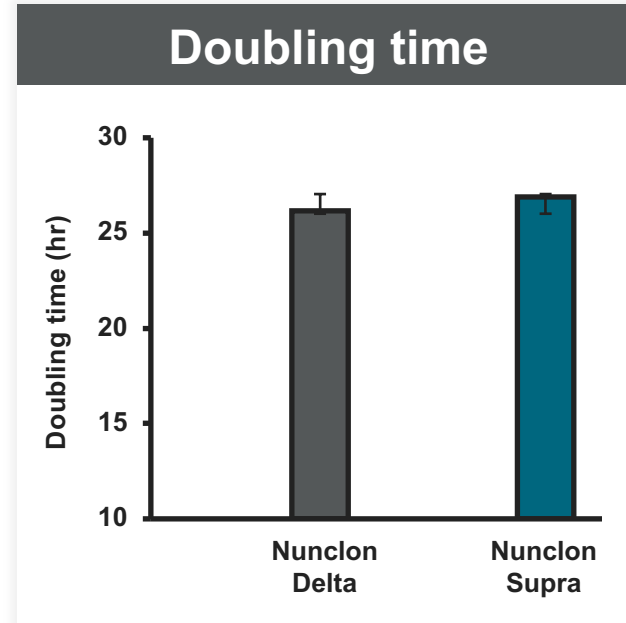
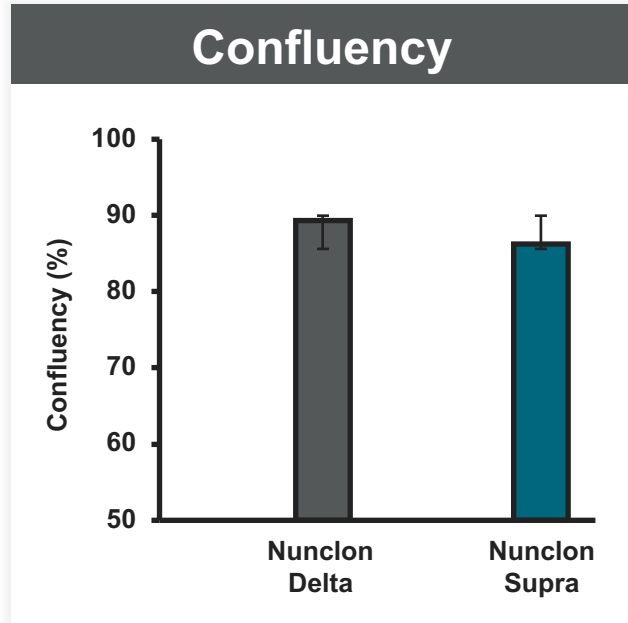
hTERT-RPE cells



hTERT-RPE cells are compatible with the Nunclon Supra cell culture surface.

hTERT-RPE cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 6 wells, per bar) compared to on the Nunclon Delta surface.

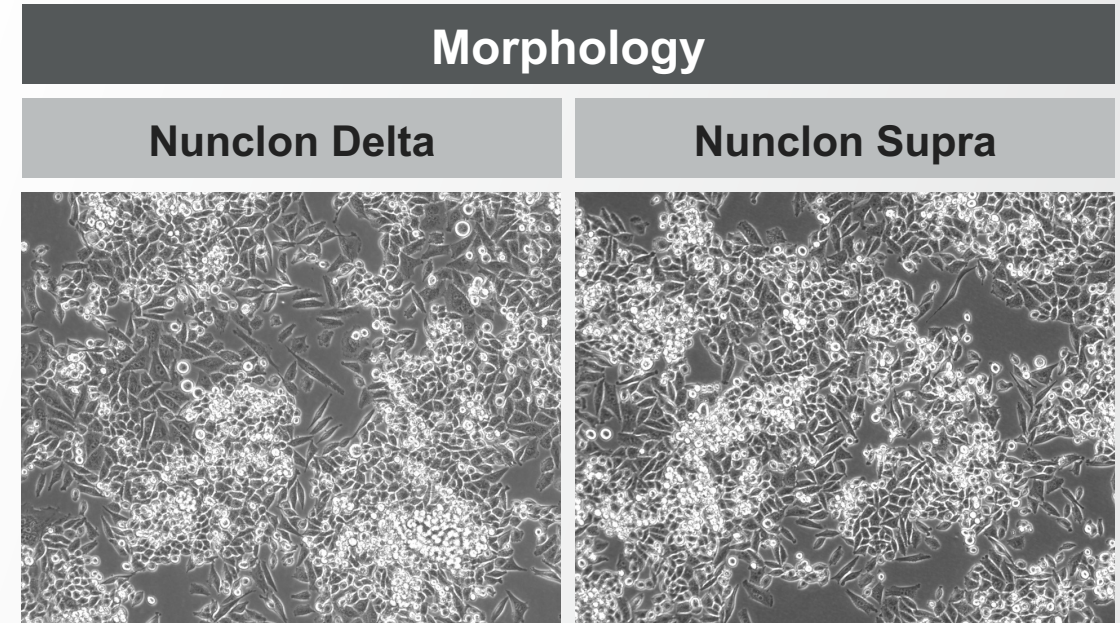
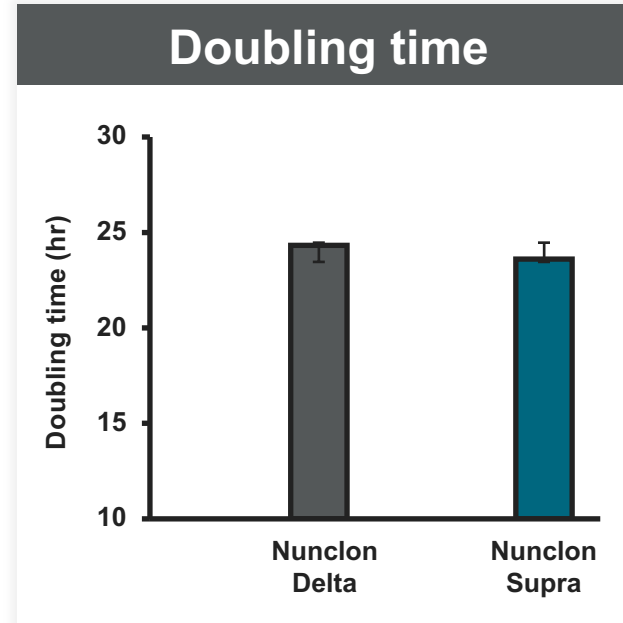
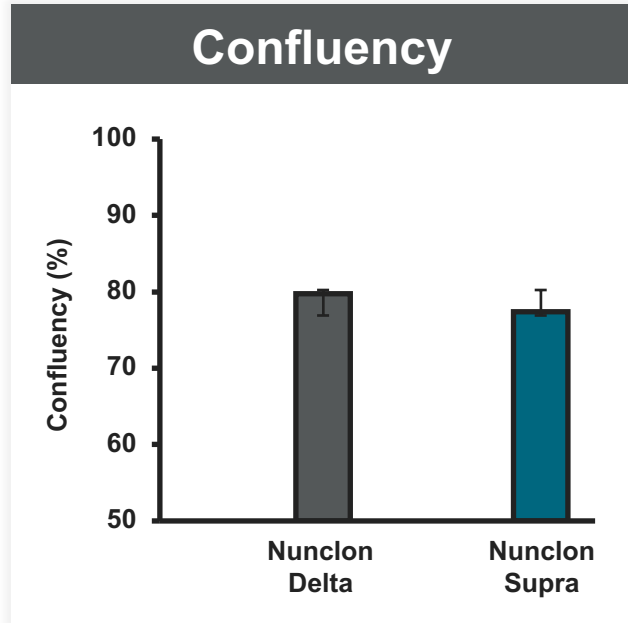
Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.



T98G cells are compatible with the Nunclon Supra cell culture surface.

T98G cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 4 wells, per bar) compared to on the Nunclon Delta surface.

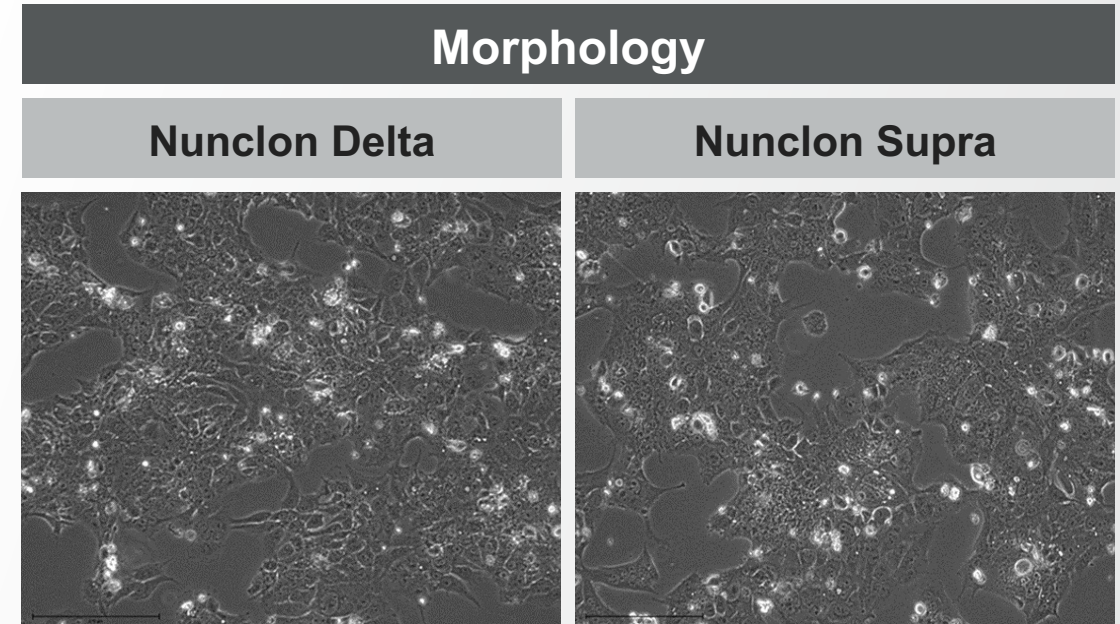
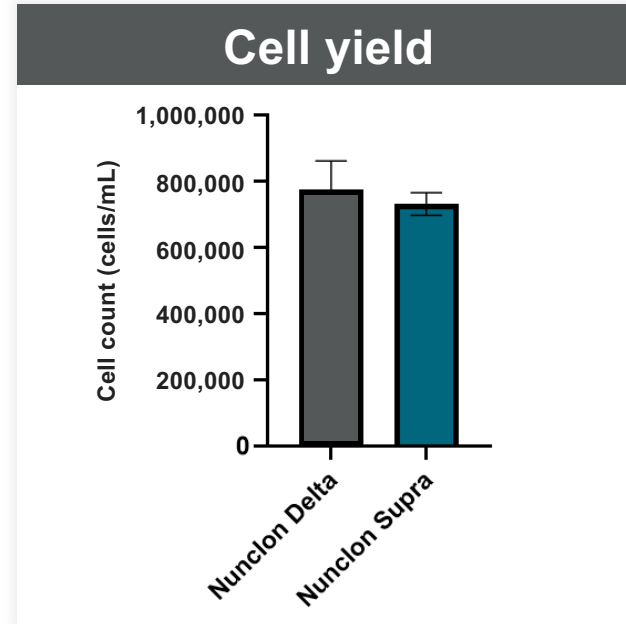
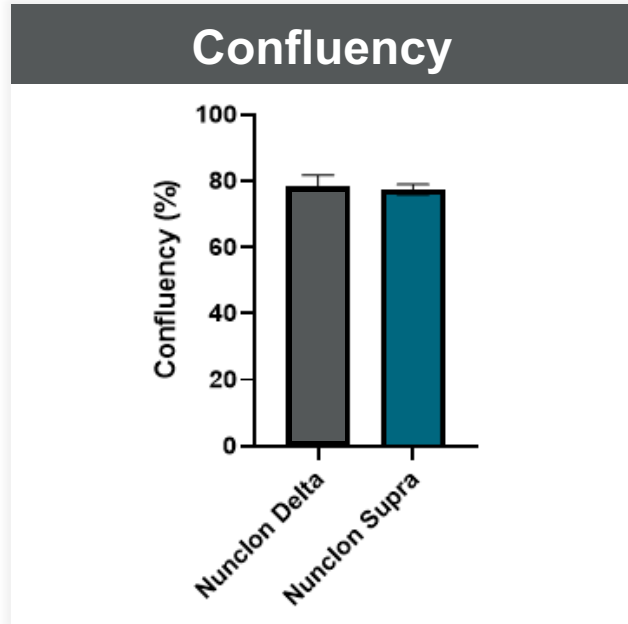
Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells demonstrated normal morphology on the Nunclon Delta and Supra surfaces.



MIA PaCa-2 cells are compatible with the Nunclon Supra cell culture surface.

MIA PaCa-2 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 4 wells, per bar) compared to on the Nunclon Delta surface.

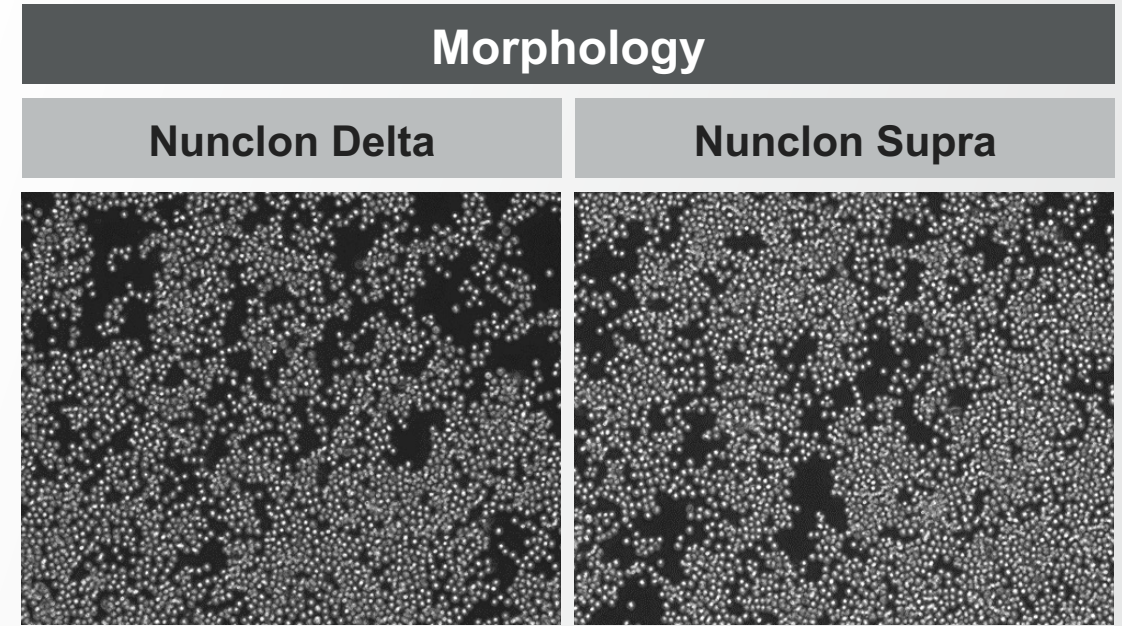
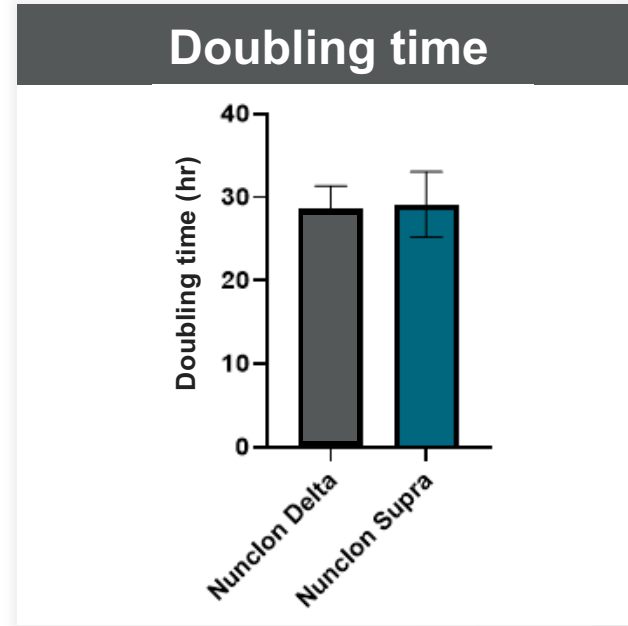
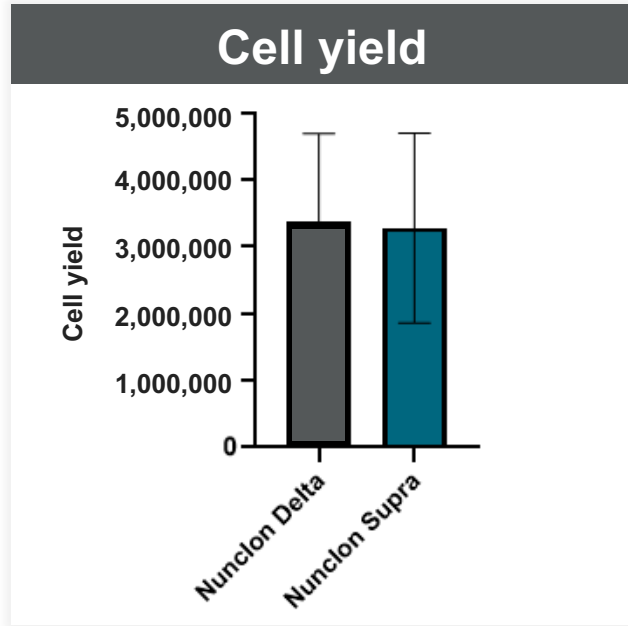
Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells demonstrated normal morphology on the Nunclon Delta and Supra surfaces.



BeWo cells are compatible with the Nunclon Supra cell culture surface.

BeWo cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 4 wells, per bar) compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in cell yield between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

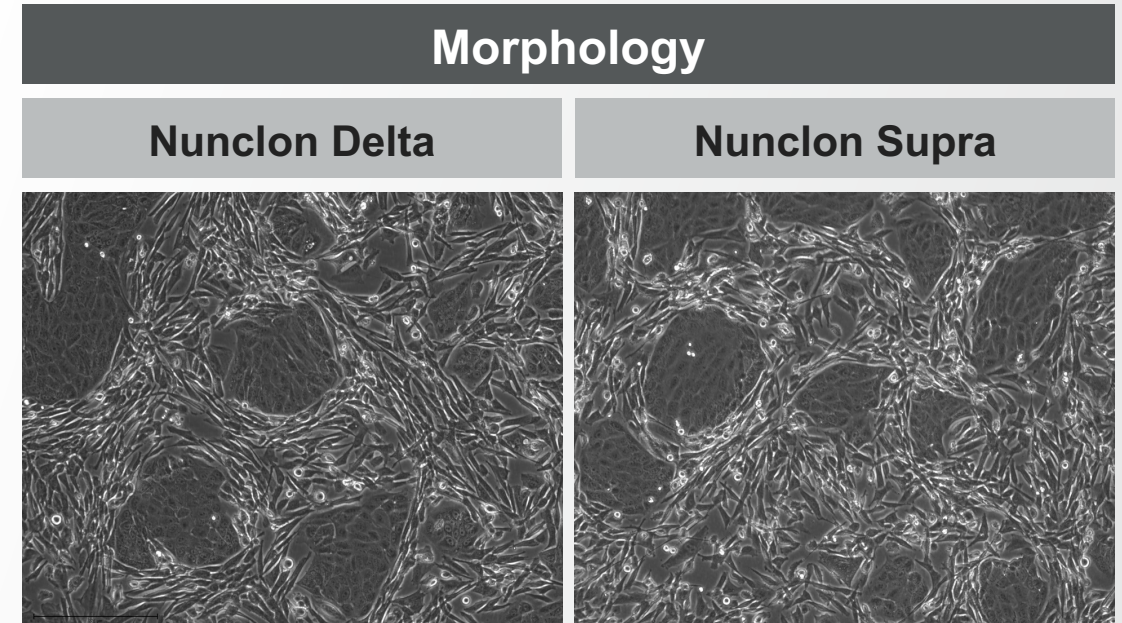
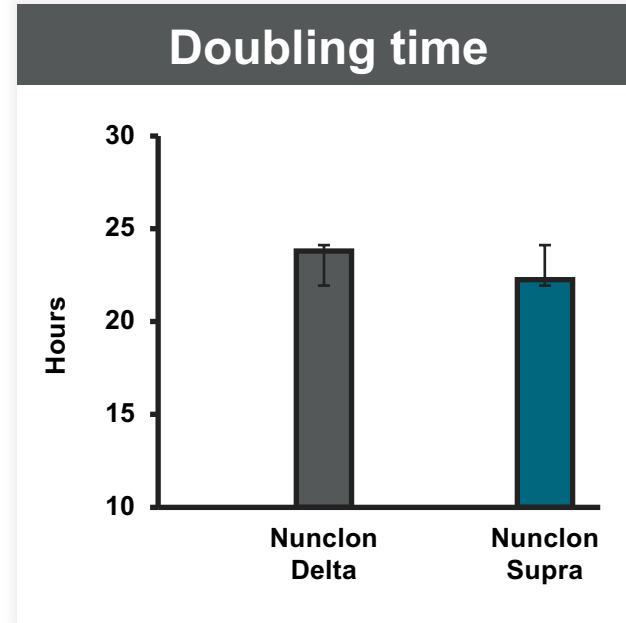
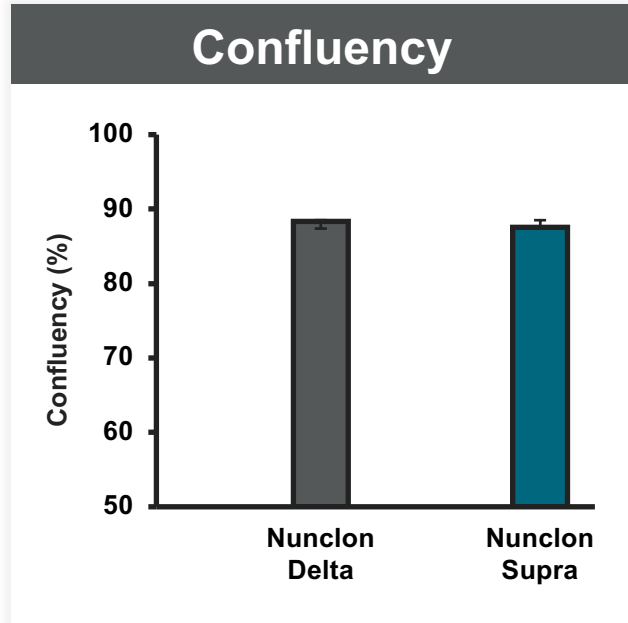
COLO 205 cells



COLO 205 cells are compatible with the Nunclon Supra cell culture surface.

Semi-adherent COLO 205 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 4 wells, per bar) compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells demonstrated normal morphology on the Nunclon Delta and Supra surfaces.

MDCK cells

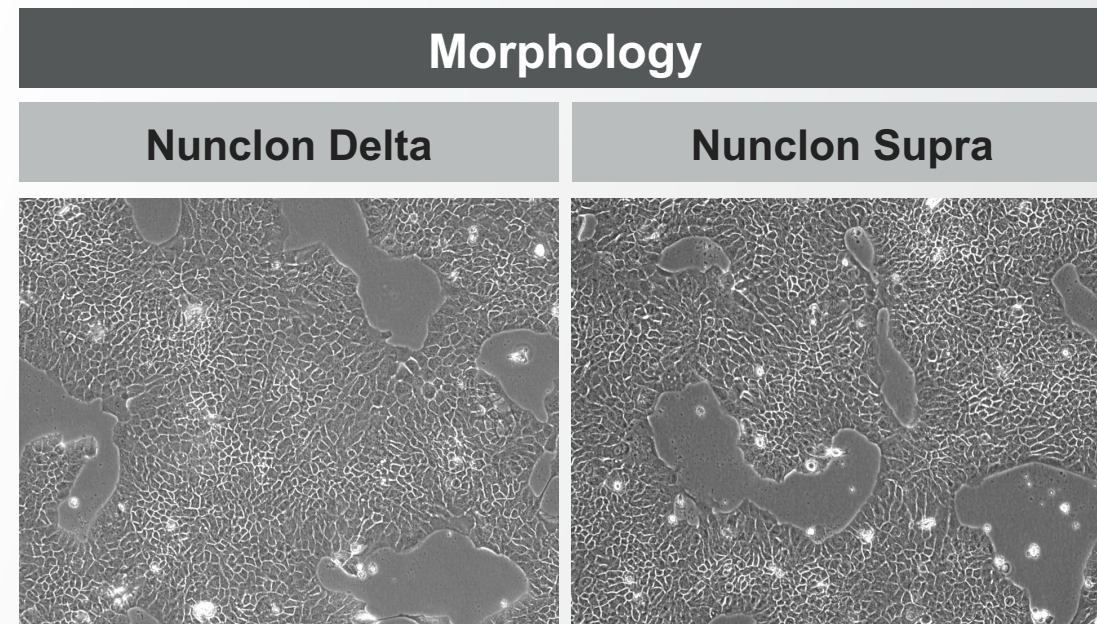
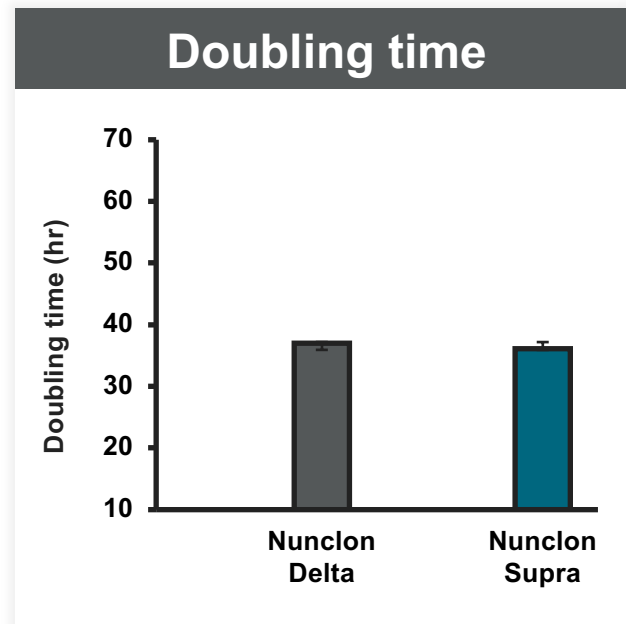
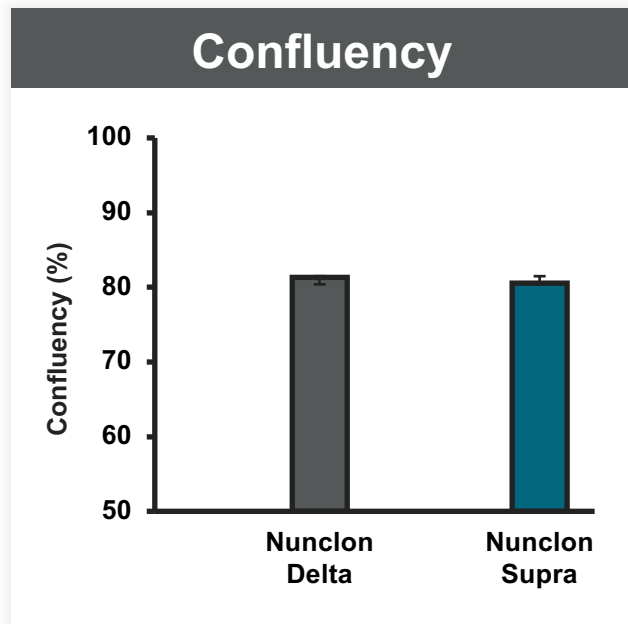


MDCK cells are compatible with the Nunclon Supra cell culture surface.

MDCK cells were cultured on Nunclon Supra and Delta surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 6 wells, per bar) compared to on the Nunclon Delta surface.

Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

A-431 cells

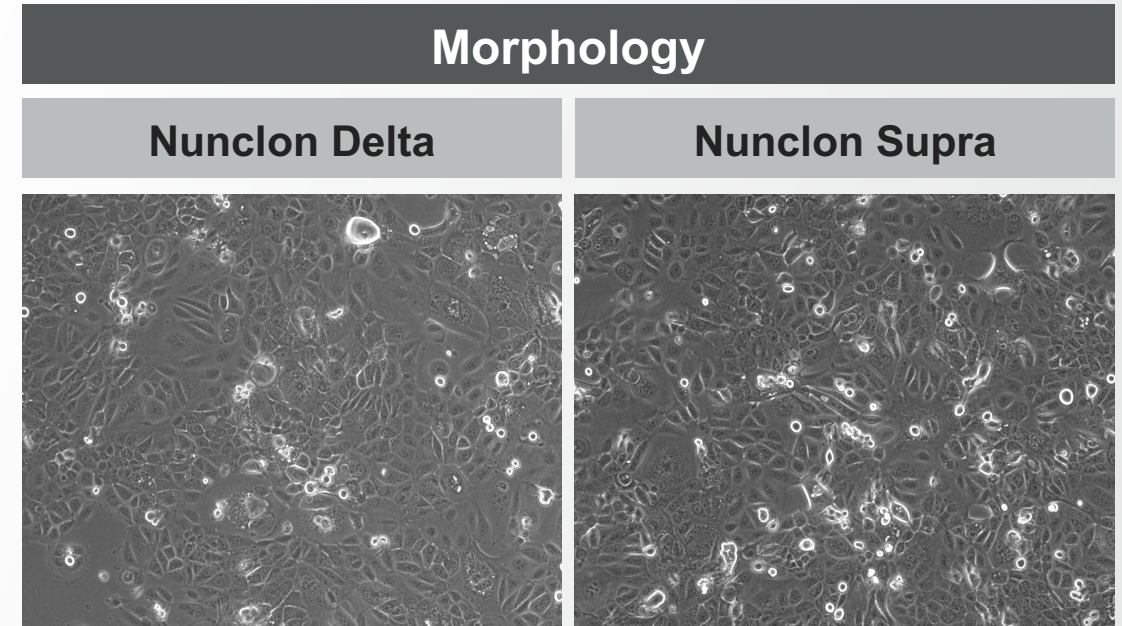
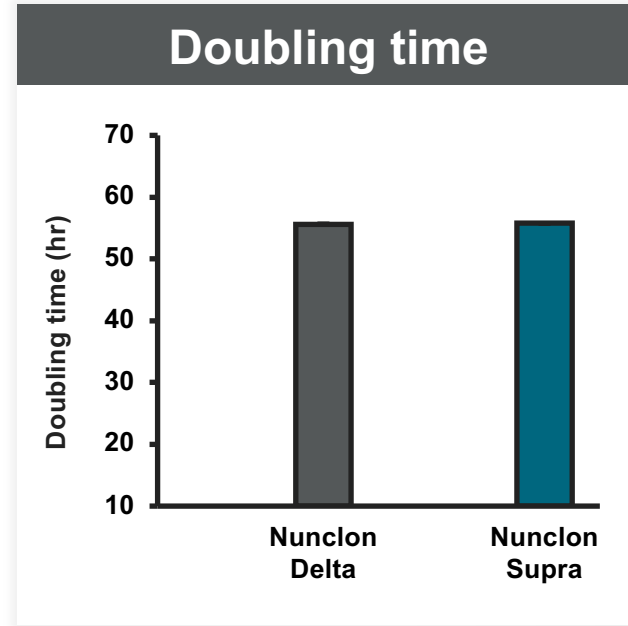
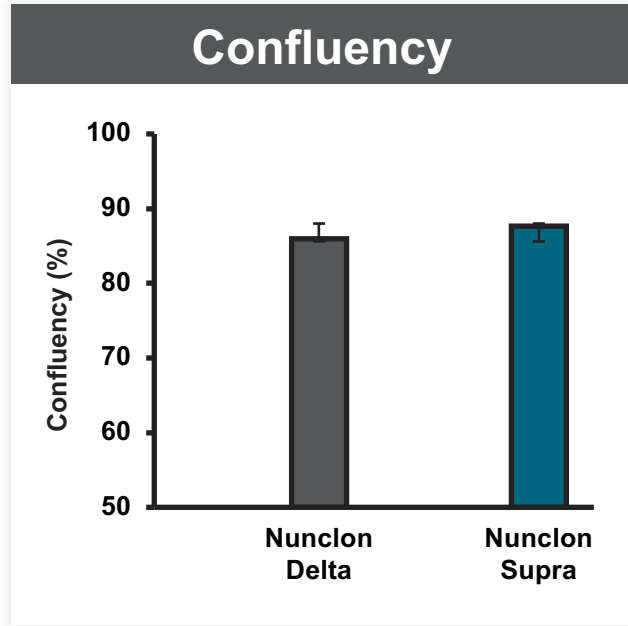


A-431 cells are compatible with the Nunclon Supra cell culture surface.

A-431 cells were cultured on Nunclon Supra and Delta surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 6 wells, per bar) compared to on the Nunclon Delta surface.

Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

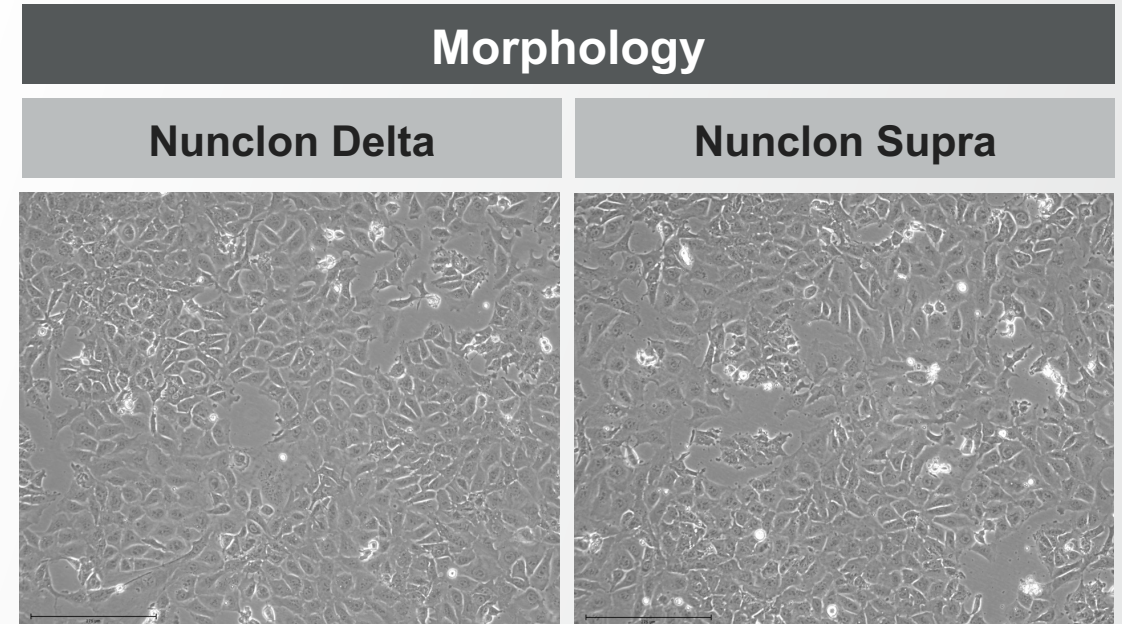
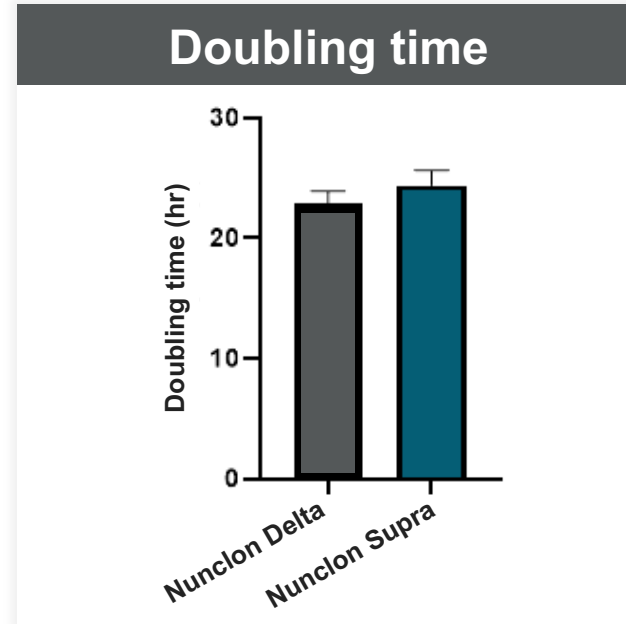
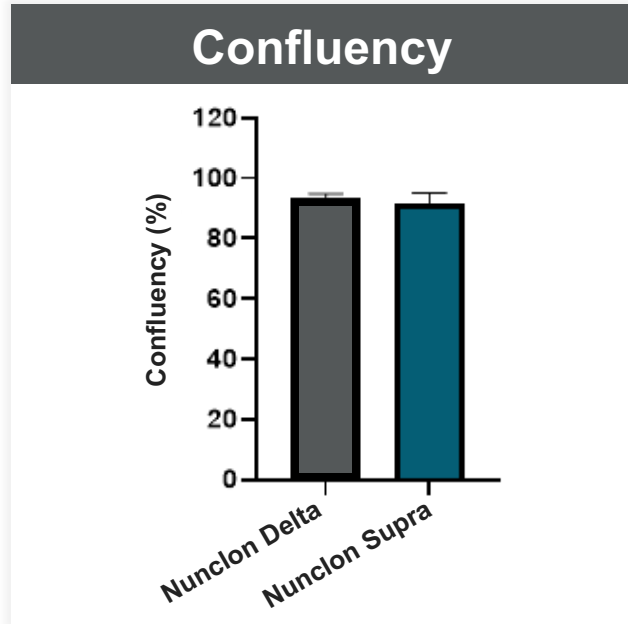
SCC-15 cells



SCC-15 cells are compatible with the Nunclon Supra cell culture surface.

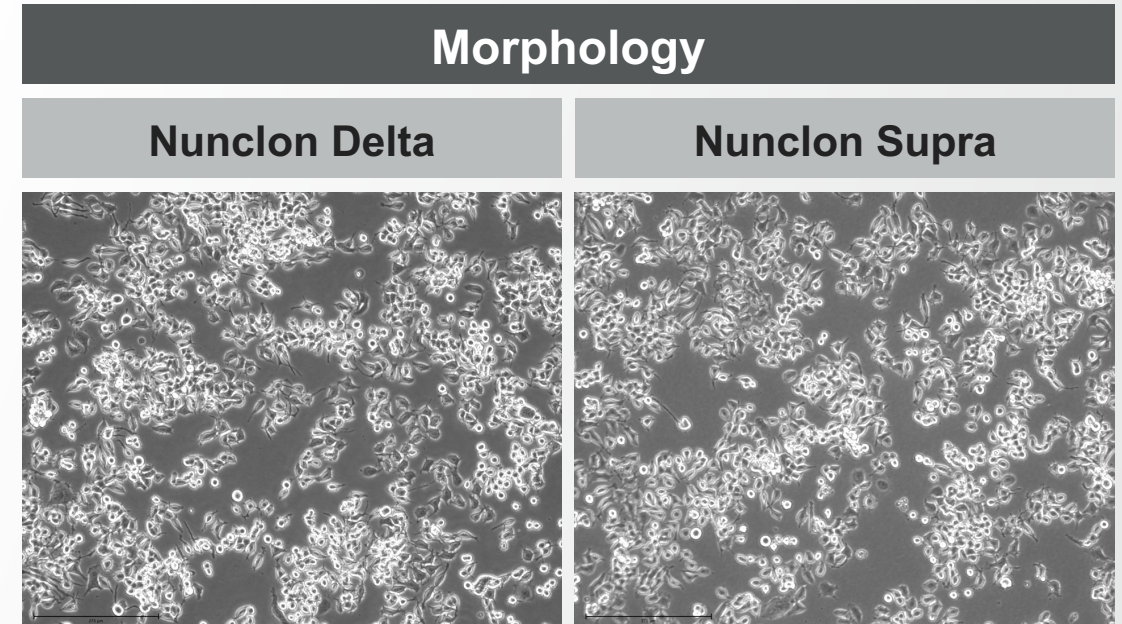
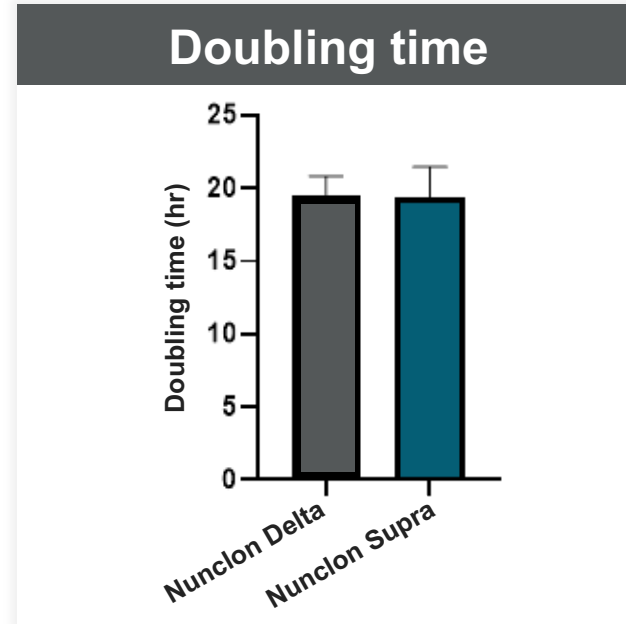
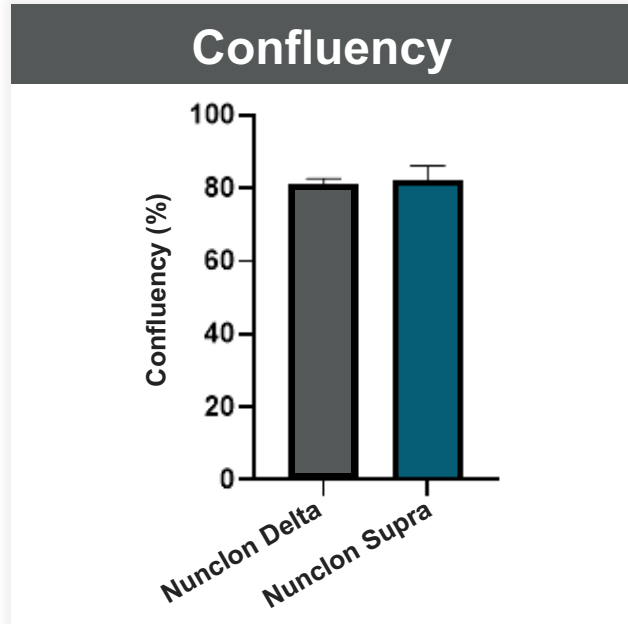
SCC-15 cells were cultured on Nunclon Supra and Delta surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 6 wells, per bar) compared to on the Nunclon Delta surface.

Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.



NTERA2 cells are compatible with the Nunclon Supra cell culture surface.

NTERA2 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 3 wells, per bar) compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in cell doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

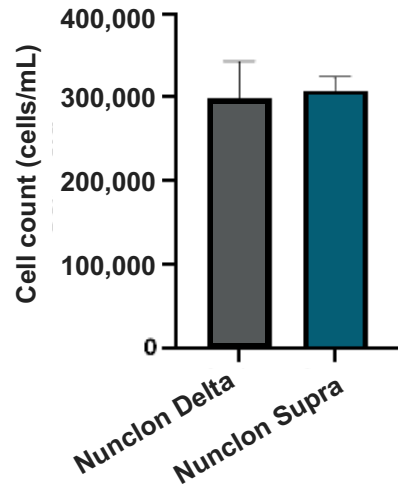


n2a cells are compatible with the Nunclon Supra cell culture surface.

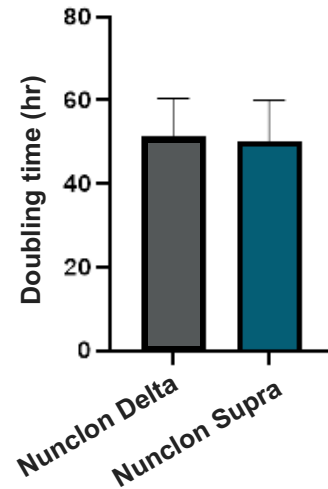
N2a cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 3 wells, per bar) compared to the culture on the Nunclon Delta surface. Furthermore, there was no significant difference in cell doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

BJ cells

Cell yield

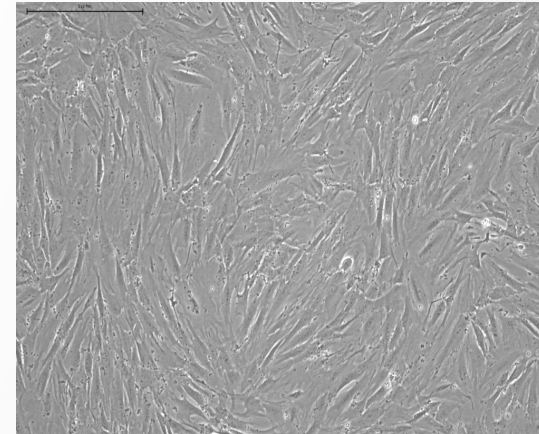


Doubling time

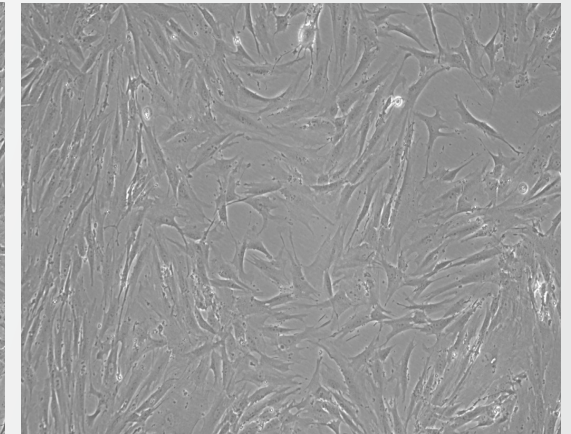


Morphology

Nunclon Delta



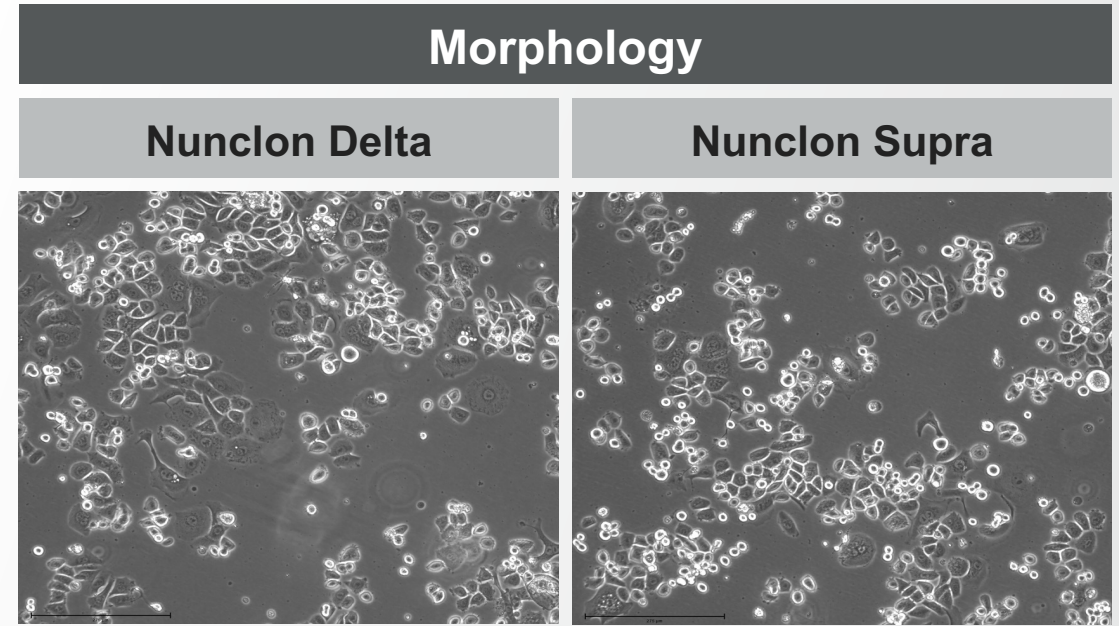
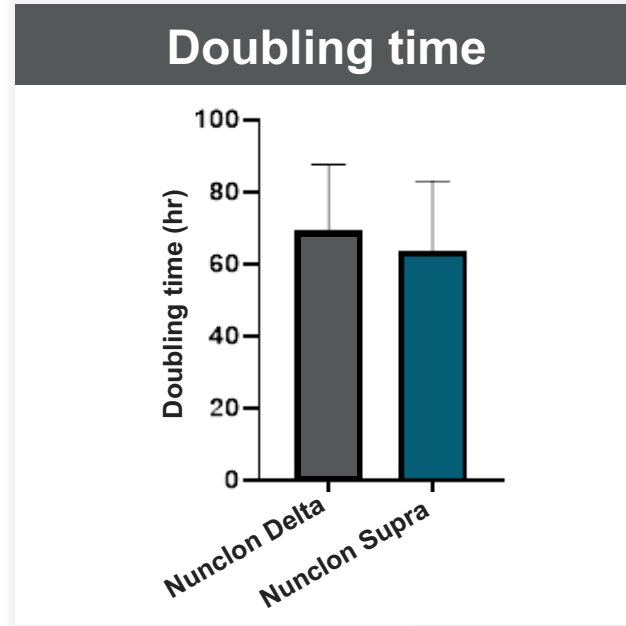
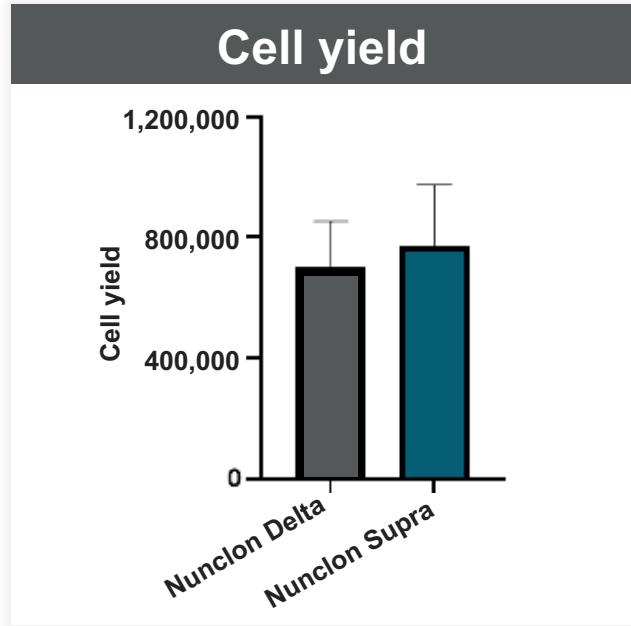
Nunclon Supra



BJ cells are compatible with the Nunclon Supra cell culture surface.

BJ cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent cell yield compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

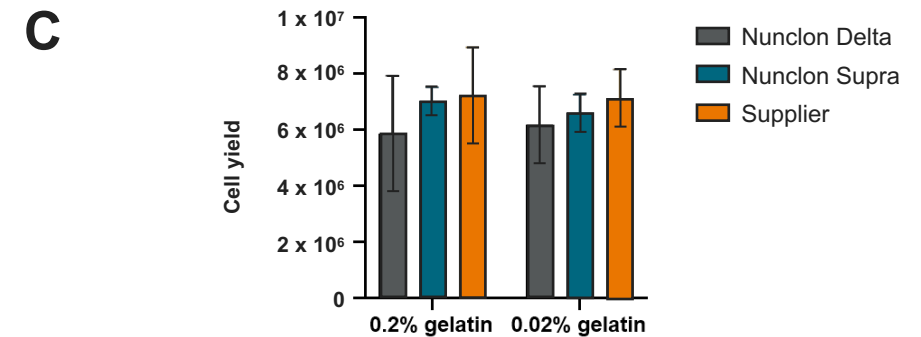
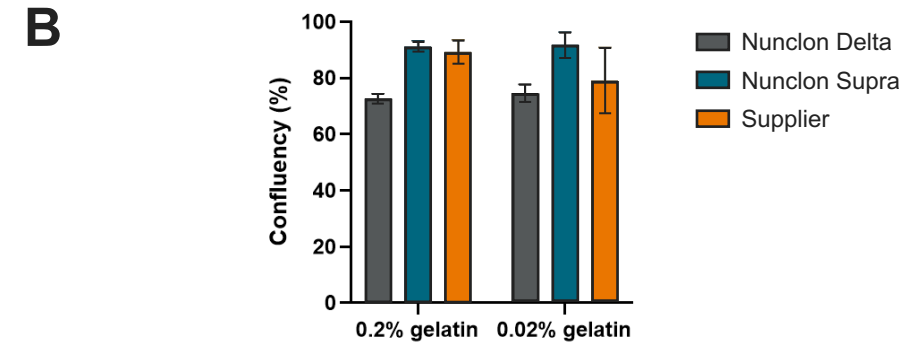
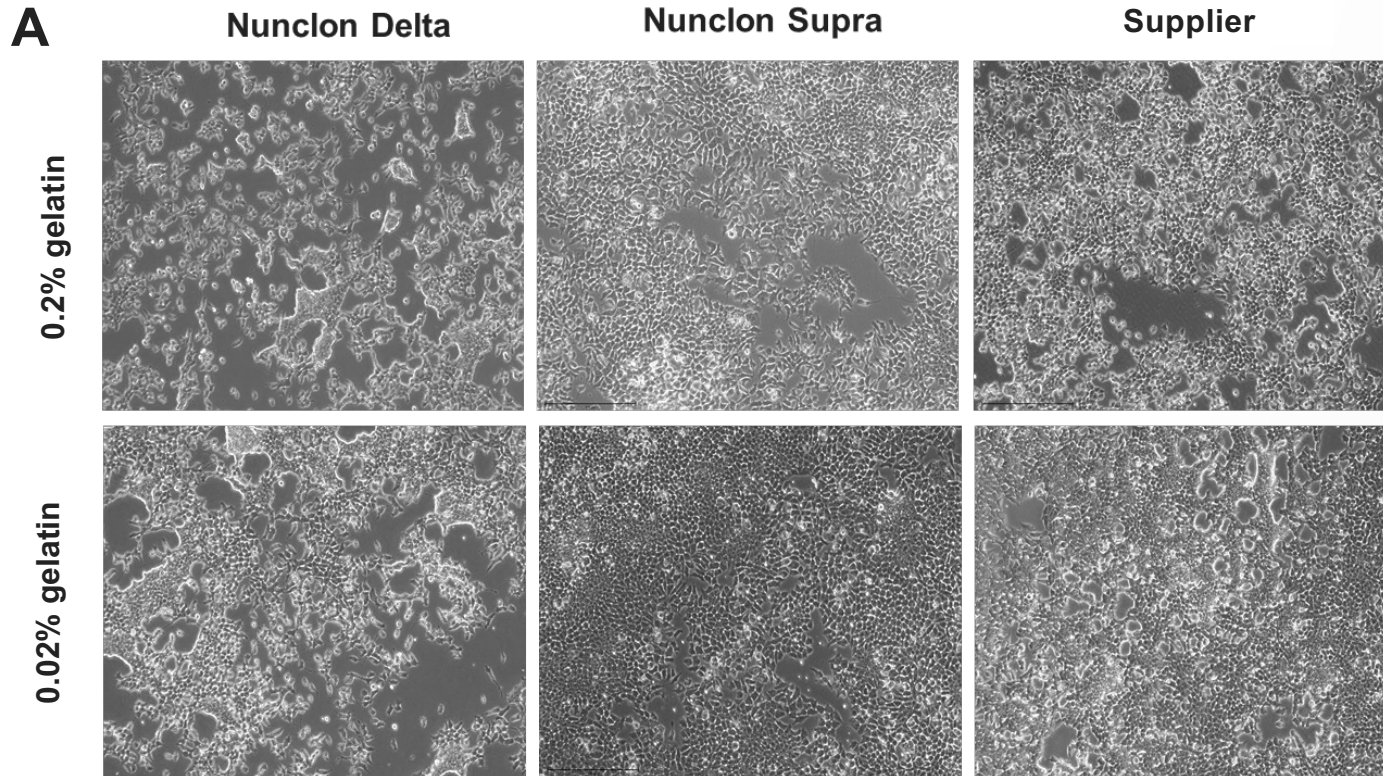
SKBR3 cells



SKBR3 cells are compatible with the Nunclon Supra cell culture surface.

SKBR3 cells were cultured on Nunclon Delta and Nunclon Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent cell yield compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in doubling time between cells grown over 3 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

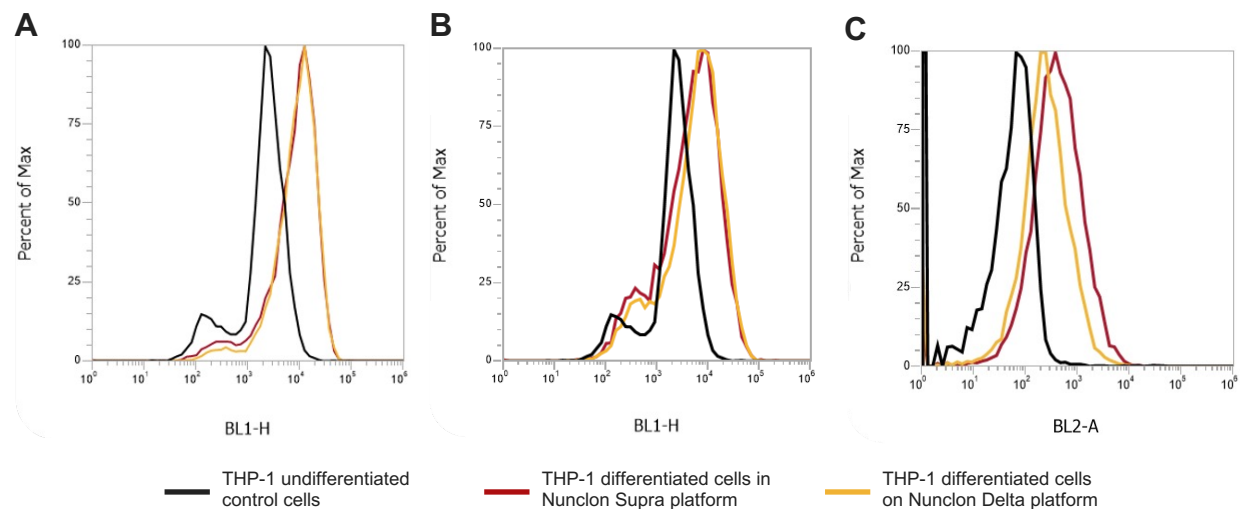
F9 cells



F9 cells attach better on the Nunclon Supra cell culture surface than on the Nunclon Delta surface. The Nunclon Supra surface supports better attachment of F9 cells even with the gelatin coating at 1/10 of the recommended amount, as indicated by **(A)** more defined cell boundaries and **(B)** better confluency on the Nunclon Supra surface compared to on the Nunclon Delta surface. **(C)** There was no significant difference in cell yields between the two surface types.

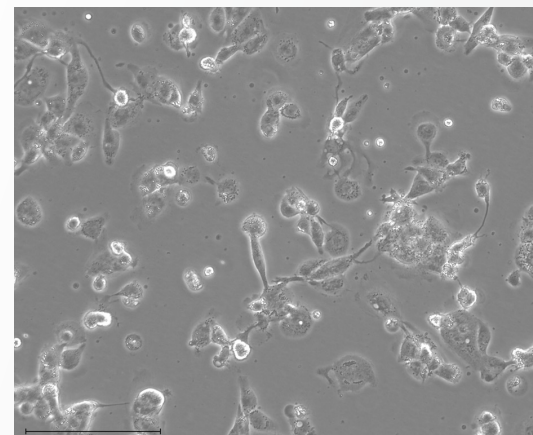
THP-1–derived M1 macrophages

Flow cytometry analysis

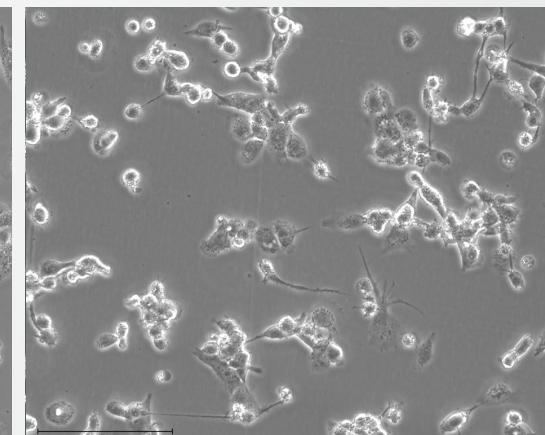


Morphology

Nunclon Delta

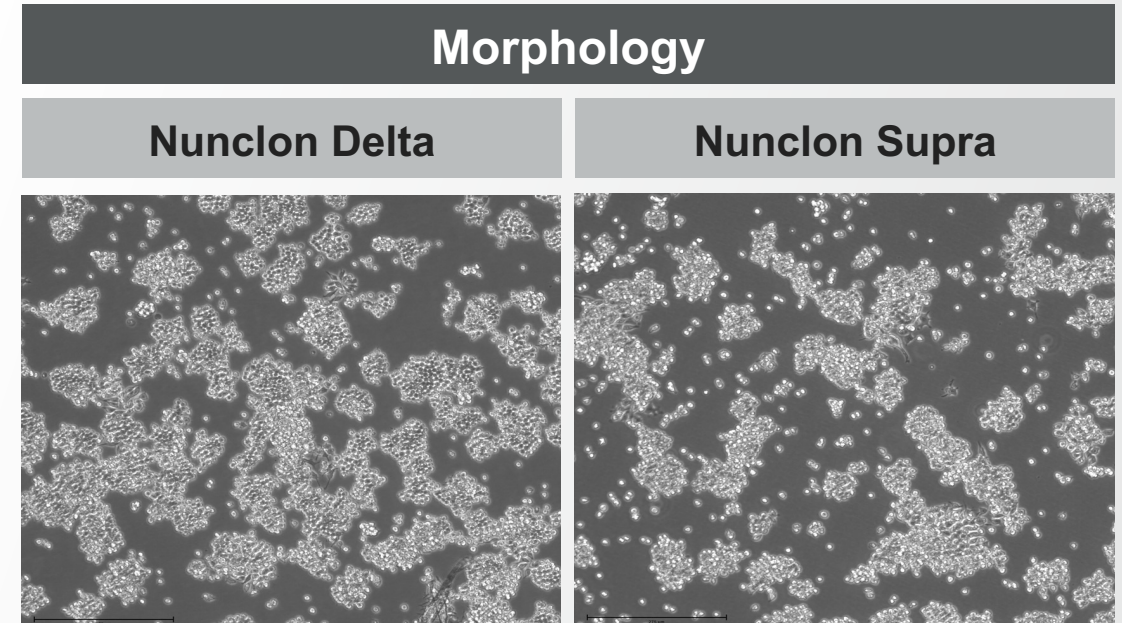
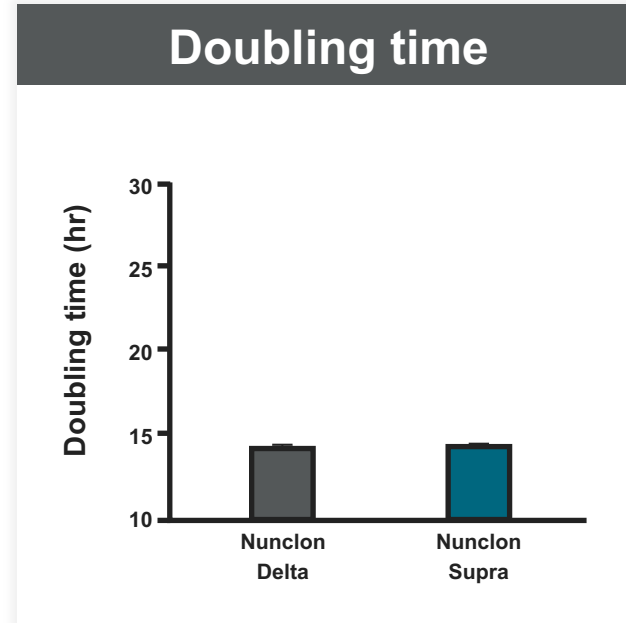
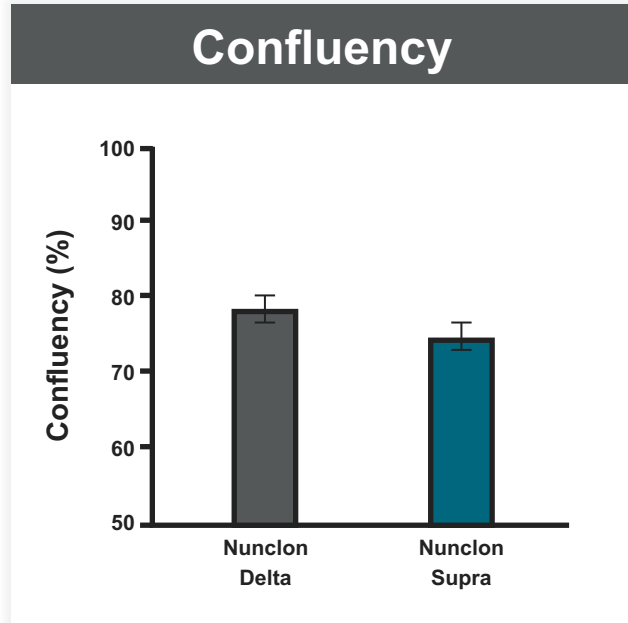


Nunclon Supra



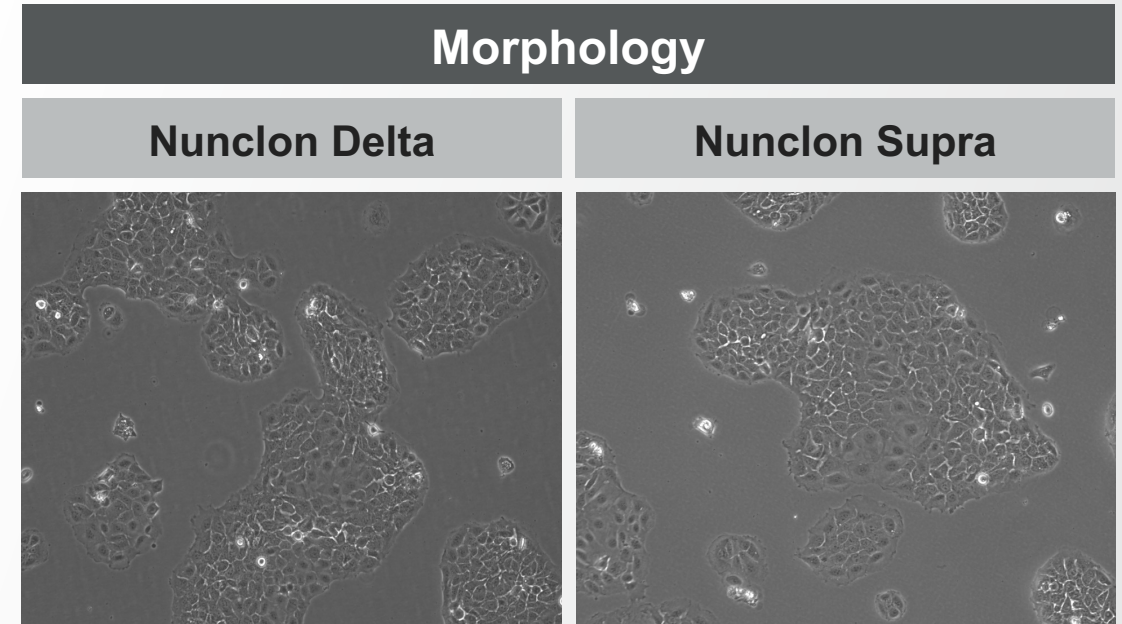
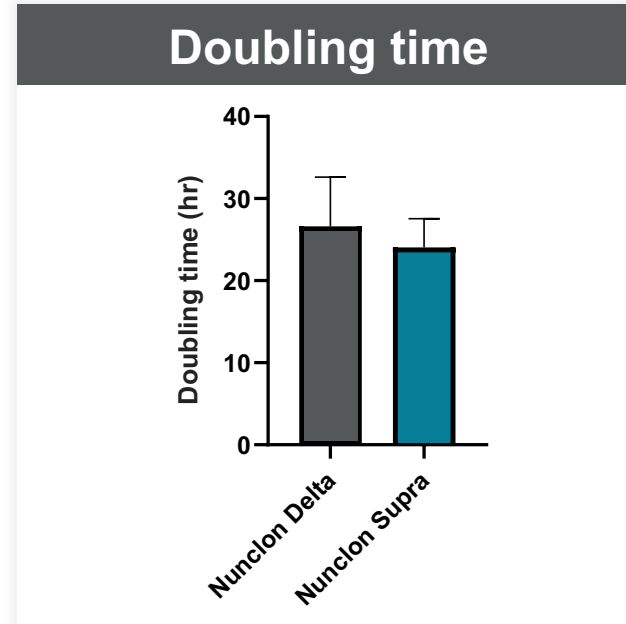
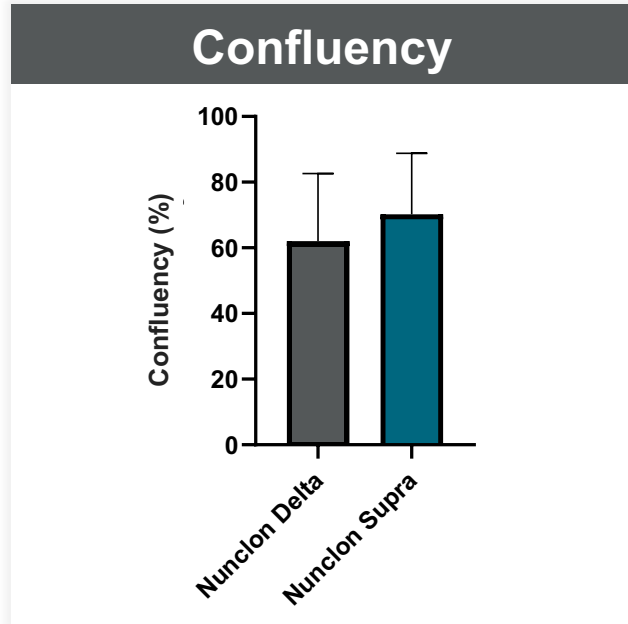
Cell attachment of M1 macrophages derived from THP-1 cells was equivalent between the Nunclon Delta and Nunclon Supra cell culture surfaces. Furthermore, no difference was observed in expression of M1 marker proteins like CD68 and CD86. Expression of CD68 was assessed by flow cytometry in fixed cells **(A)** after scraping, as well as **(B)** after dissociation using a combination of Gibco™ StemPro™ Accutase™ Dissociation Reagent and EDTA. CD86 was assessed in live M1 macrophages harvested using StemPro Accutase reagent.

RAW 264.7 cells



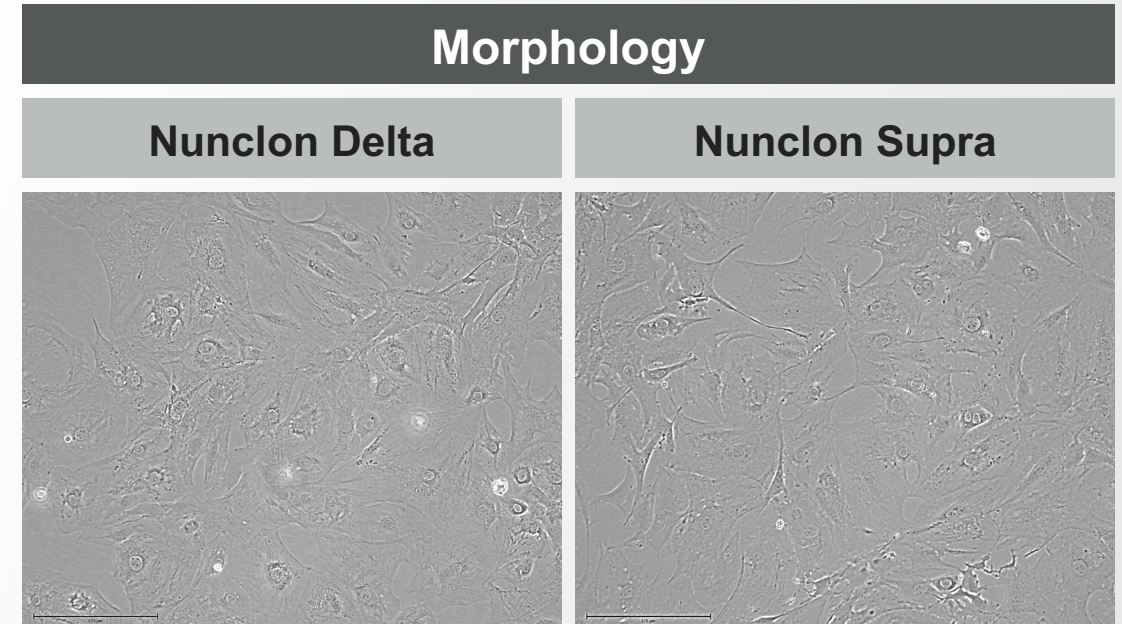
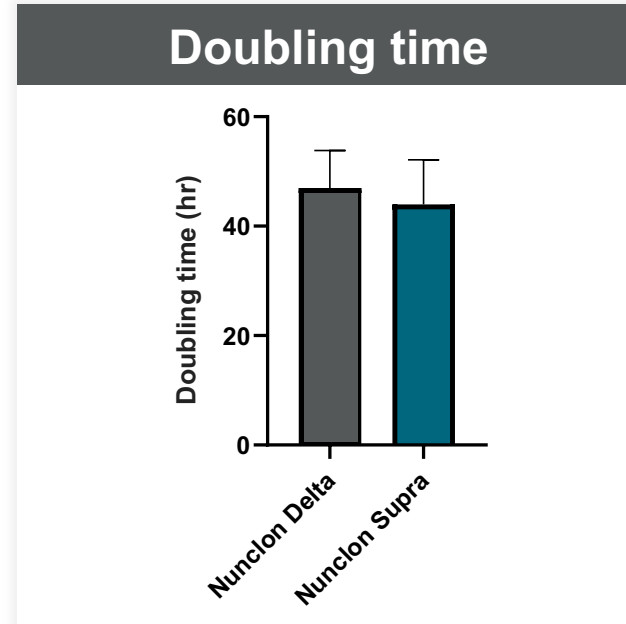
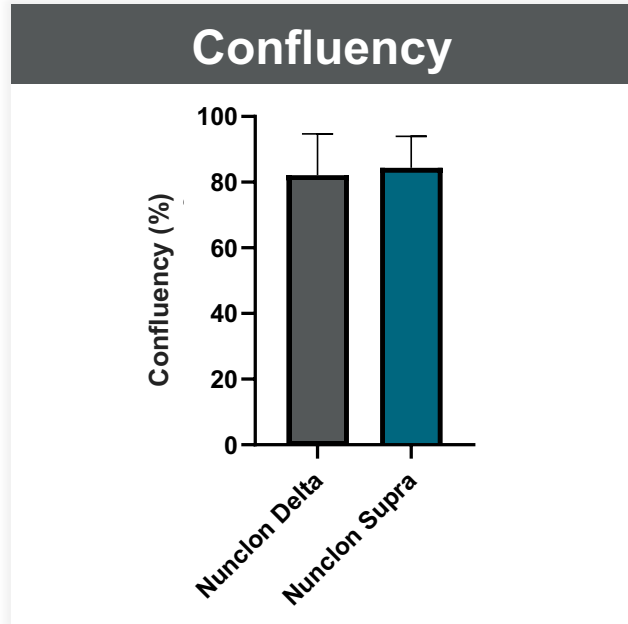
RAW264.7 cells are compatible with the Nunclon Supra cell culture surface.

Raw 264.7 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in doubling time between cells grown over 4 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.



HaCaT cells are compatible with the Nunclon Supra cell culture surface.

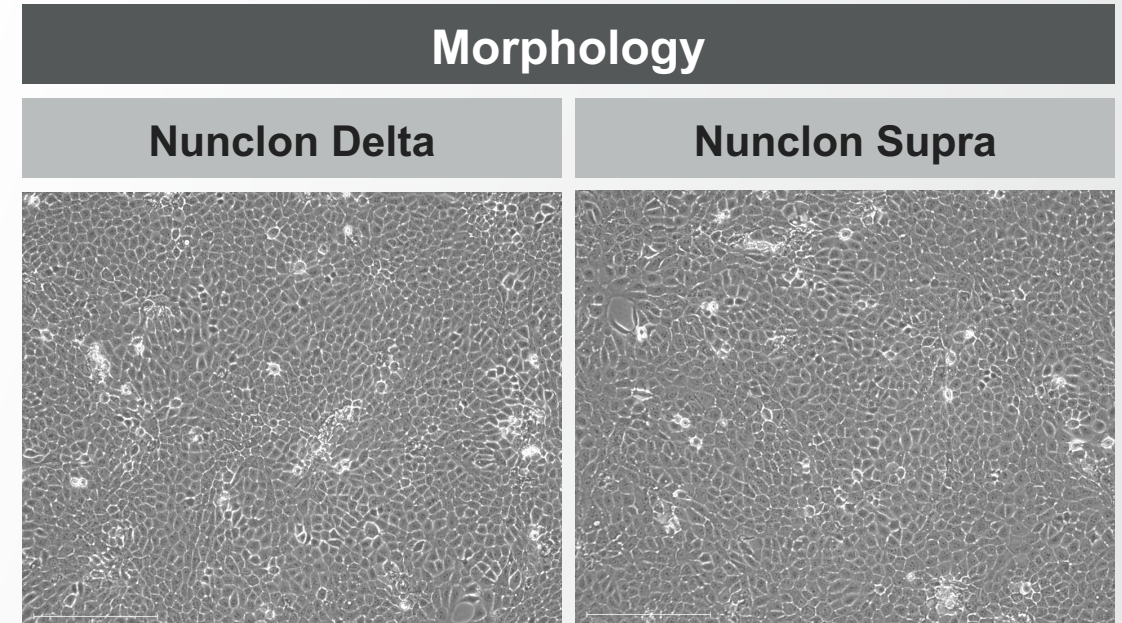
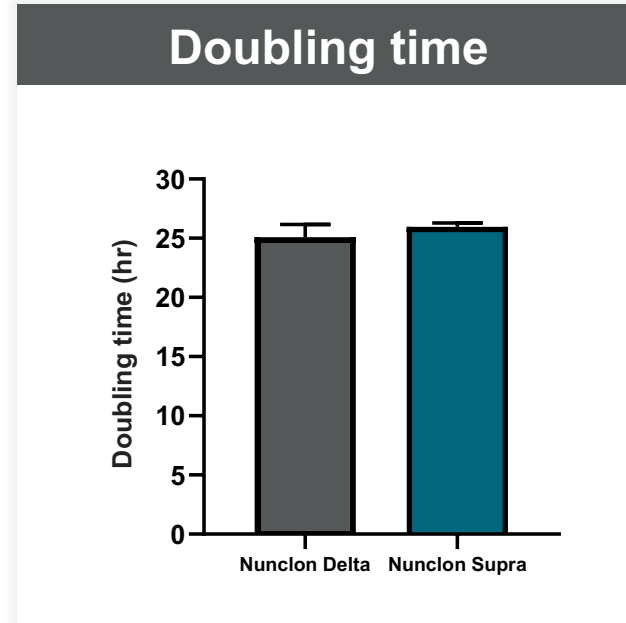
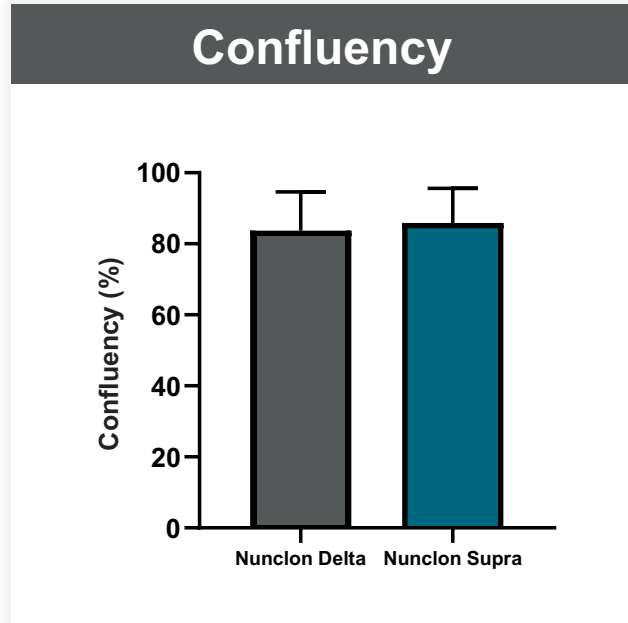
HaCaT cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in doubling time between cells grown over 5 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.



MEF cells are compatible with the Nunclon Supra cell culture surface.

MEF cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in doubling time between cells grown over 5 passages. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

MCF10A cells

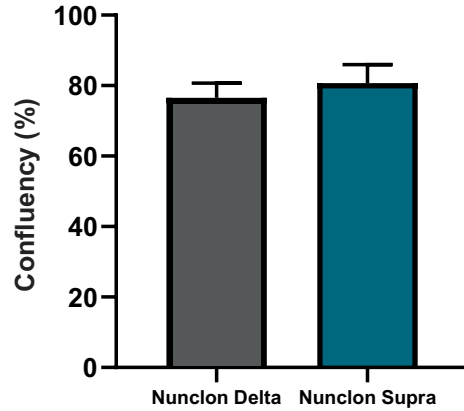


MCF10A cells are compatible with the Nunclon Supra cell culture surface.

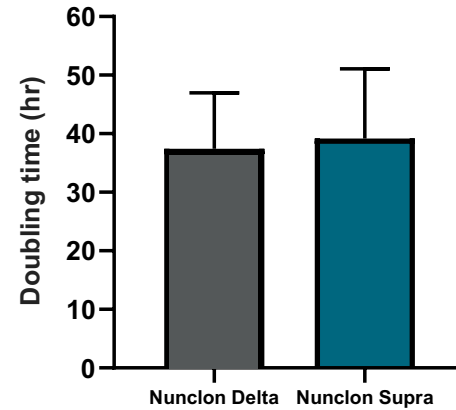
MCF10A cells were cultured on Nunclon Delta and Supra surfaces for 4 passages. Both surfaces retained identical morphology and no significant difference was obtained in their confluency and doubling time.

HMEC-1 cells

Confluency

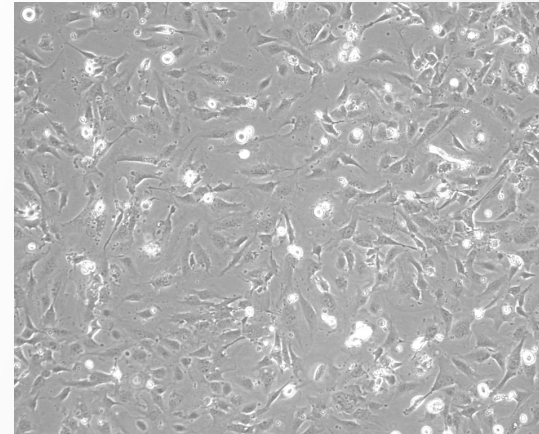


Doubling time

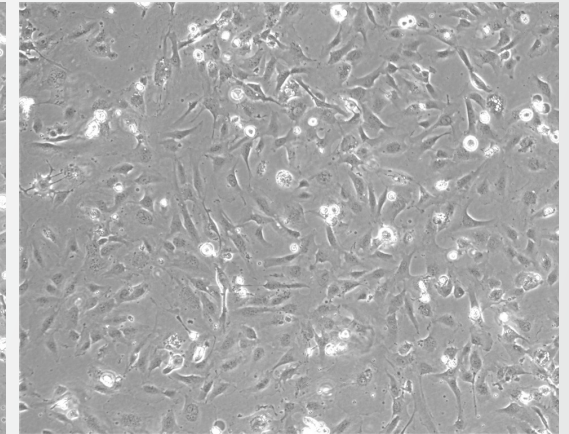


Morphology

Nunclon Delta



Nunclon Supra

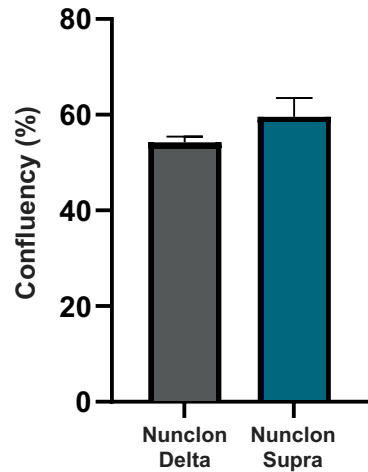


HMEC-1 cells are compatible with the Nunclon Supra cell culture surface.

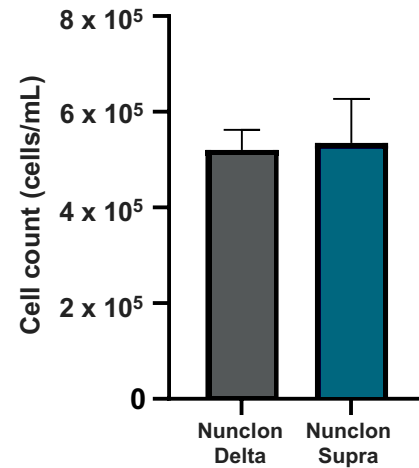
HMEC-1 cells were cultured on Nunclon Delta and Supra surfaces for 3 passages. Both surfaces retained identical morphology and no significant difference was obtained in their confluency and doubling time.

MCF-7 cells

Confluency

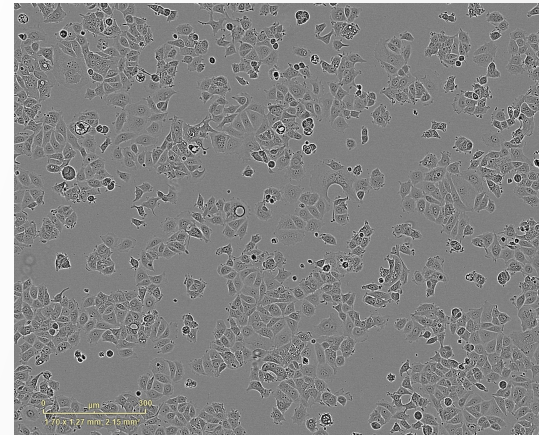


Cell yield

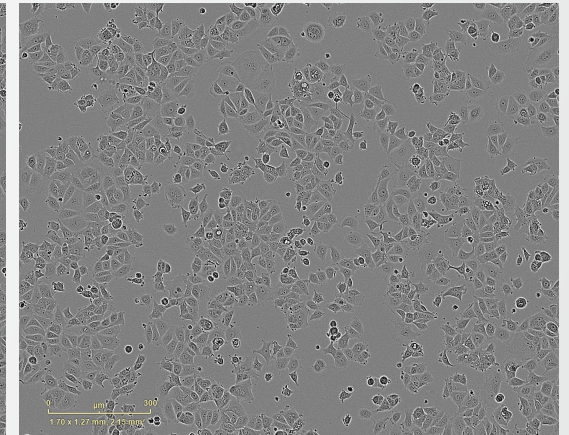


Morphology

Nunclon Delta



Nunclon Supra



MCF-7 cells are compatible with the Nunclon Supra cell culture surface.

MCF-7 cells were cultured on Nunclon Delta and Supra surfaces. Culture on the Nunclon Supra surface resulted in equivalent confluency (N = 2 T-75 vessels, per bar) compared to on the Nunclon Delta surface. Furthermore, there was no significant difference in cell yield. The cells also demonstrated normal morphology on the Nunclon Supra surface compared to on the Nunclon Delta surface.

Thank you

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