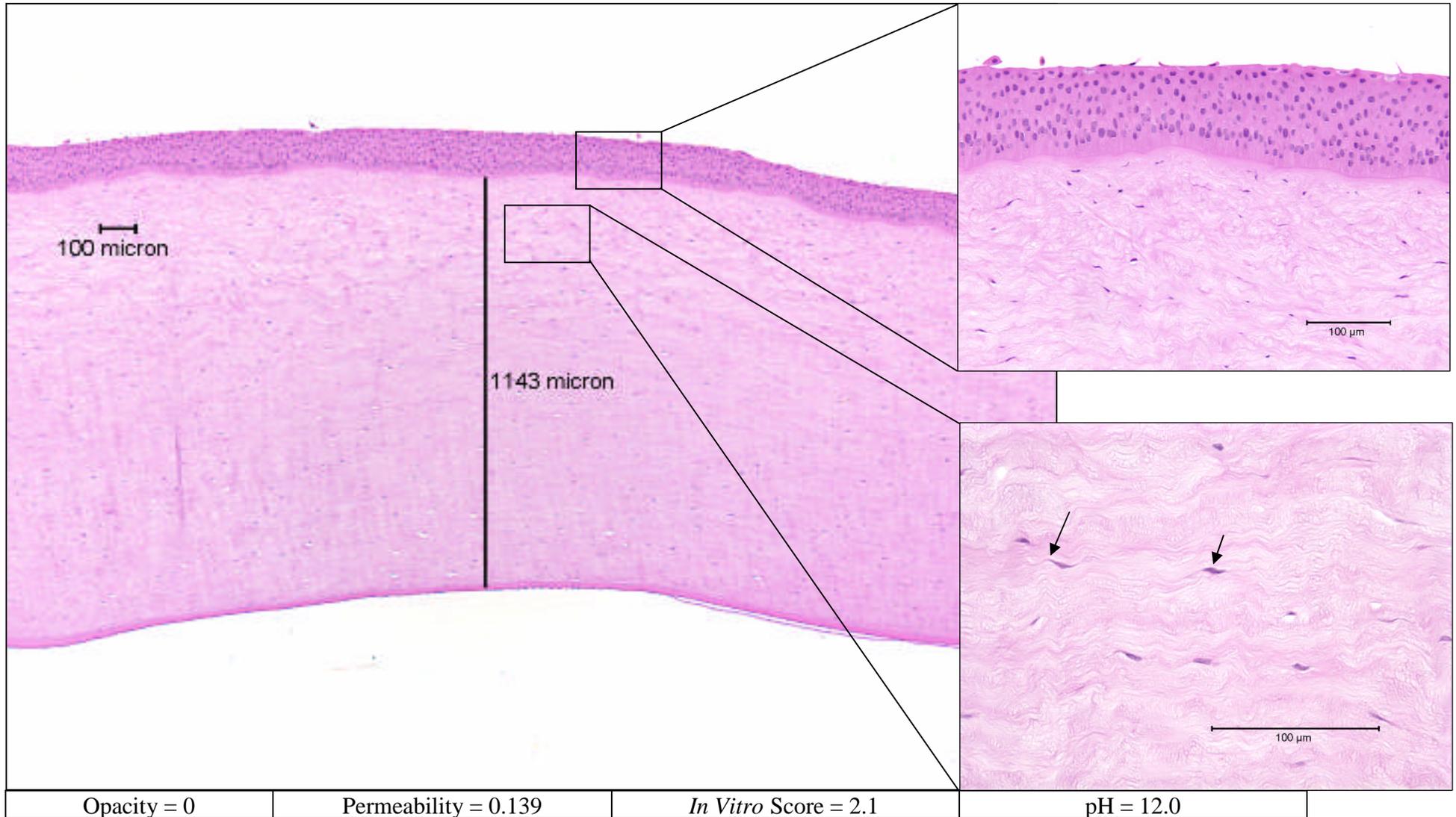
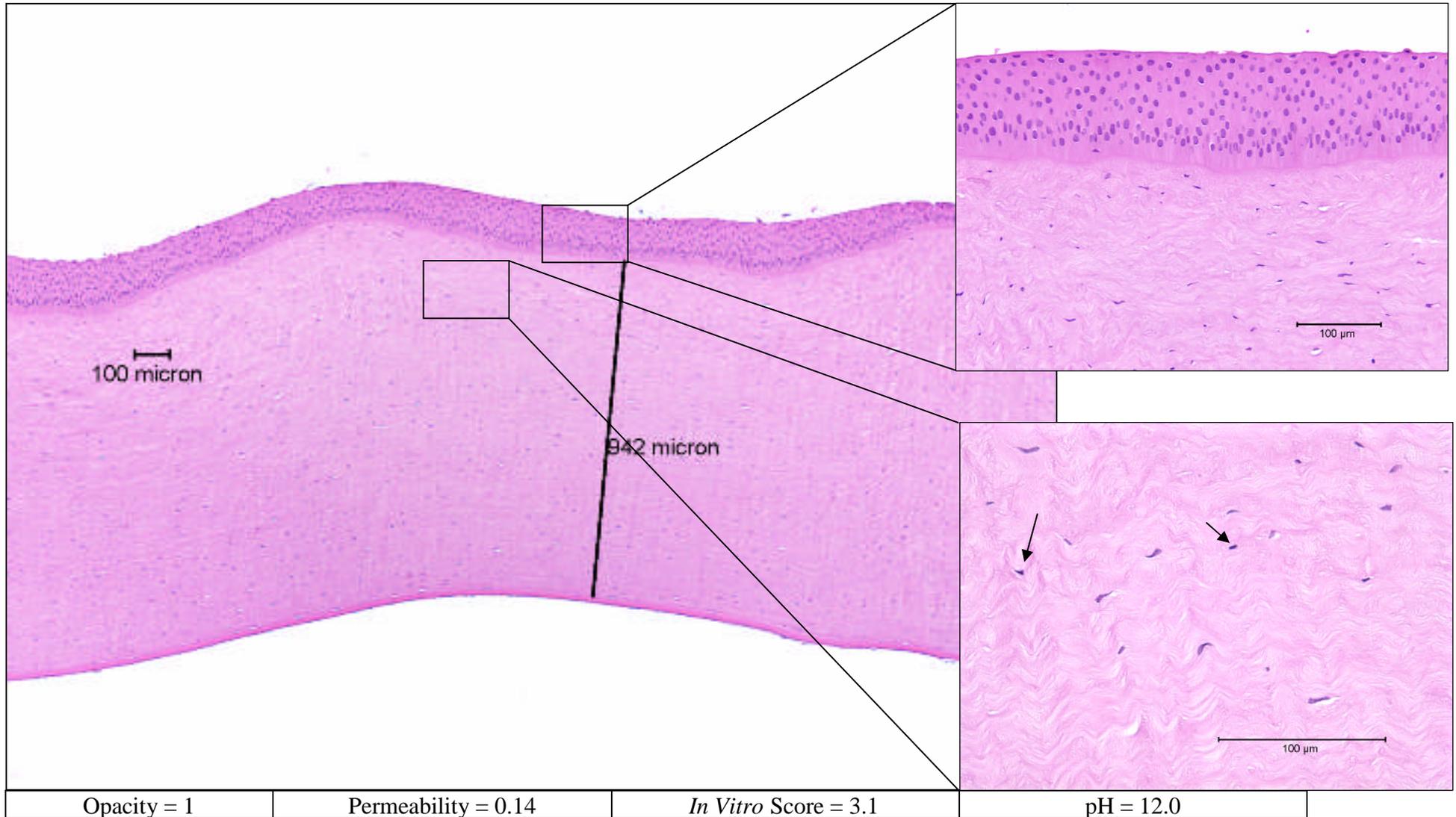


ALKALINE MATERIALS

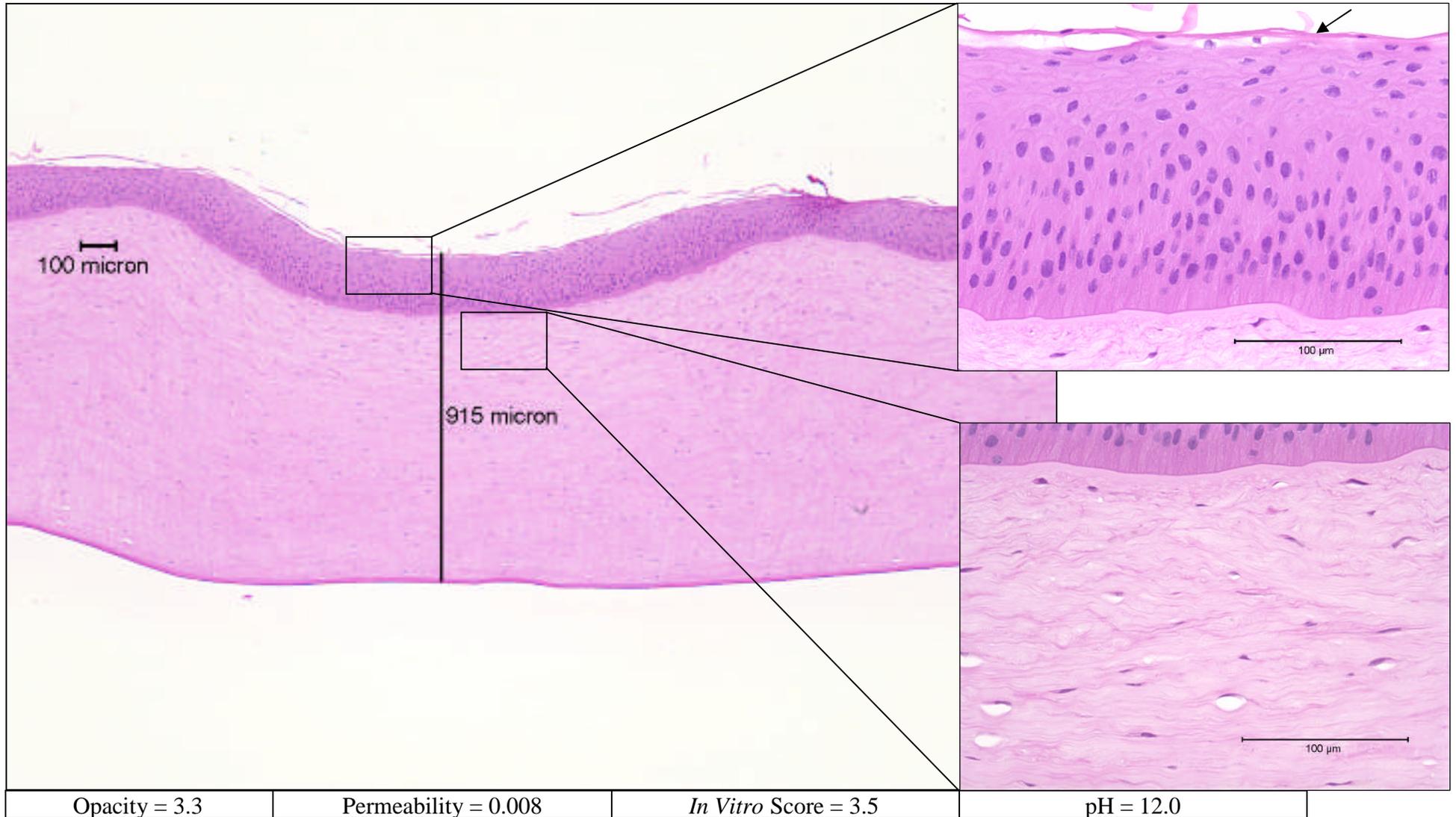
05AE40, neat, 3-minute exposure, 120-minute post-exposure (09/08/05) - Full thickness (magnification 48x). Upper right - Epithelium (magnification 237x). Lower right - Stroma at 20% depth showing moderate collagen matrix vacuolization and a moderate increase in the frequency of keratocytes with some abnormal nuclear morphology and cytoplasmic eosinophilia (magnification 475x).



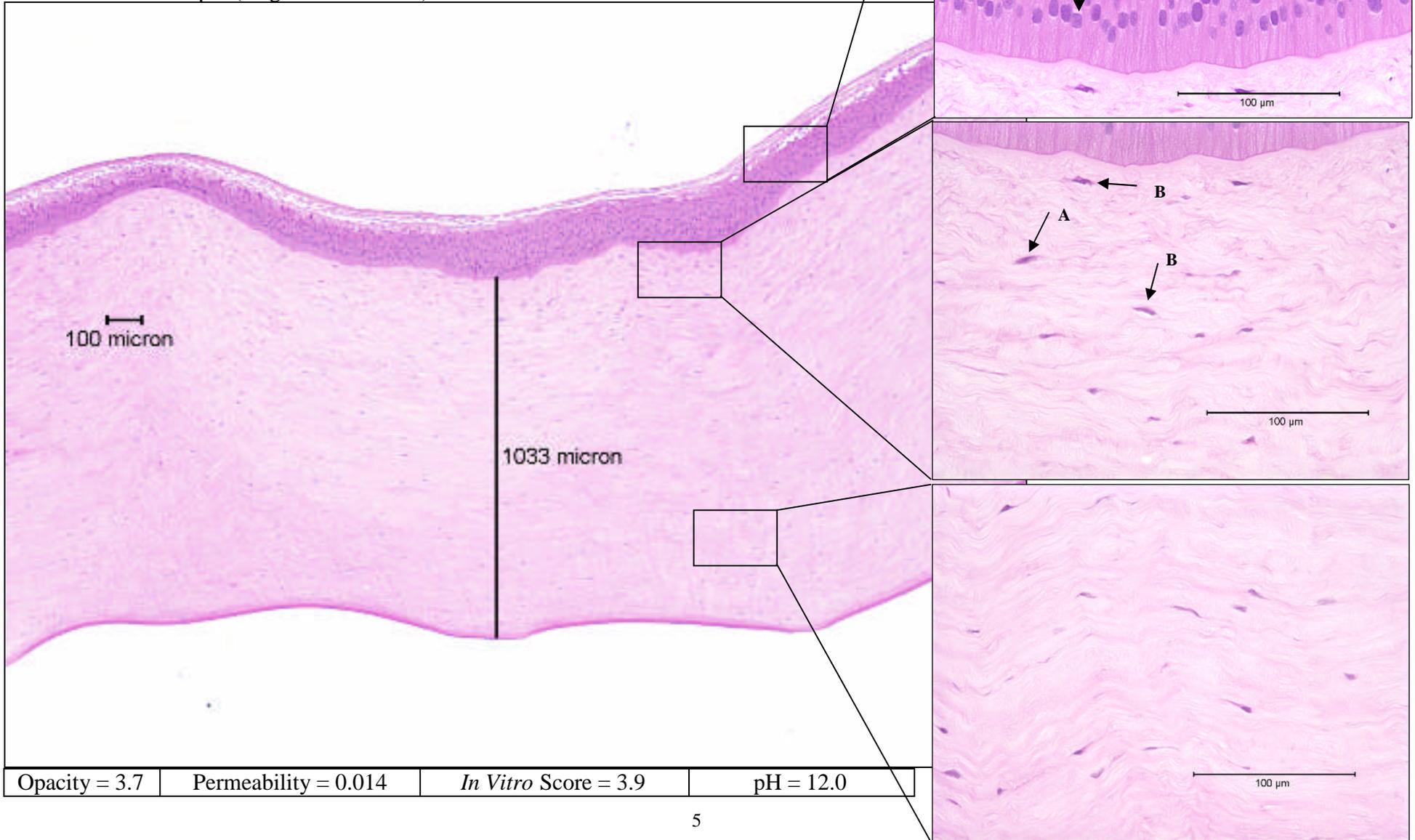
05AE40, neat, 3-minute exposure, 120-minute post-exposure (11/02/05) - Full thickness (magnification 48x). Upper right - Epithelium (magnification 237x). Lower right - Stroma at 20% depth showing moderate collagen matrix vacuolization and a moderate increase in keratocytes with abnormal nuclear condensation (magnification 475x).



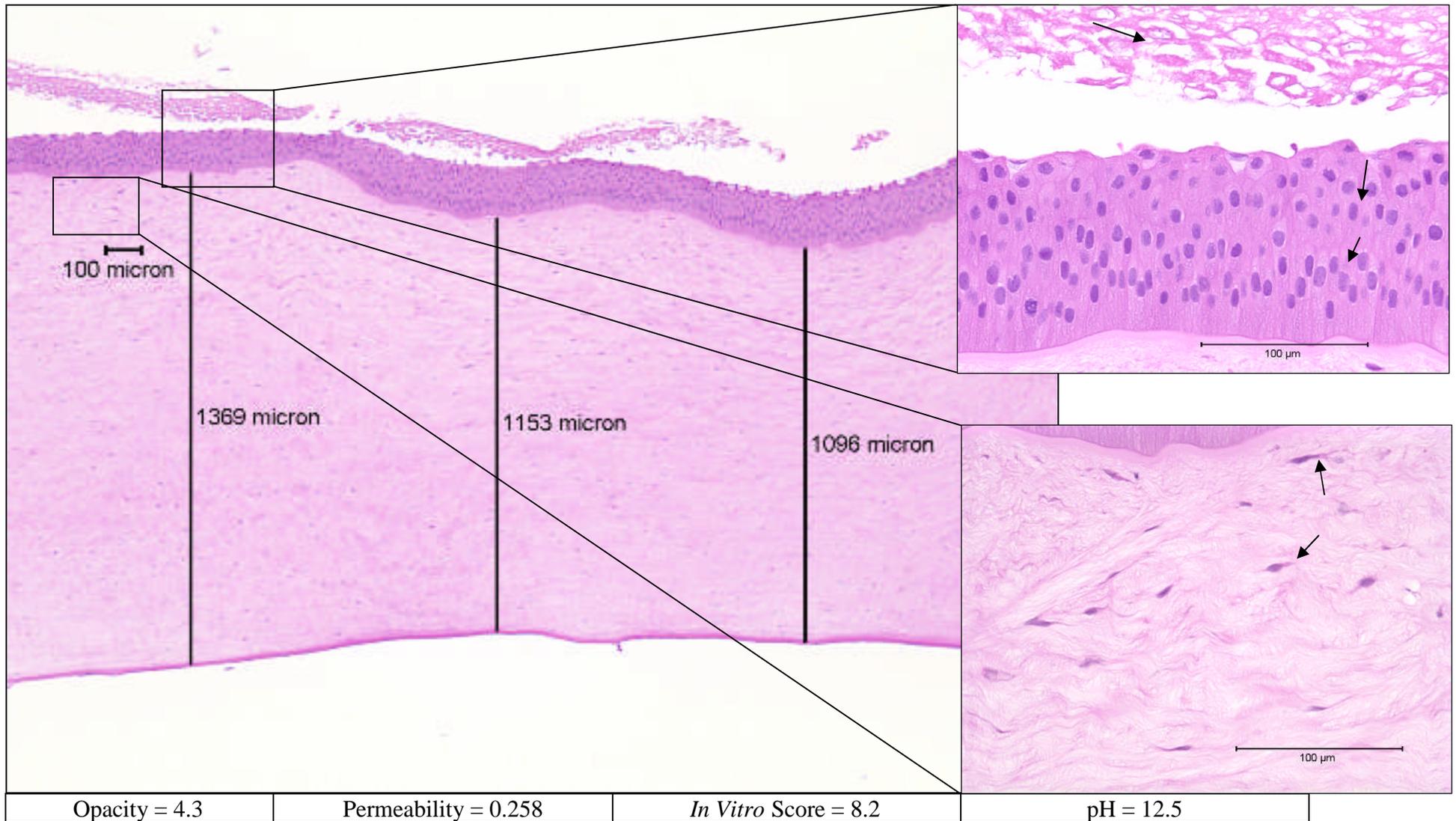
05AD40, neat, aerosol exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x). Upper right - Epithelium showing the loss of some of the surface squamous epithelium (magnification 475x). Lower right - Stroma directly below Bowman's Layer (magnification 475x).



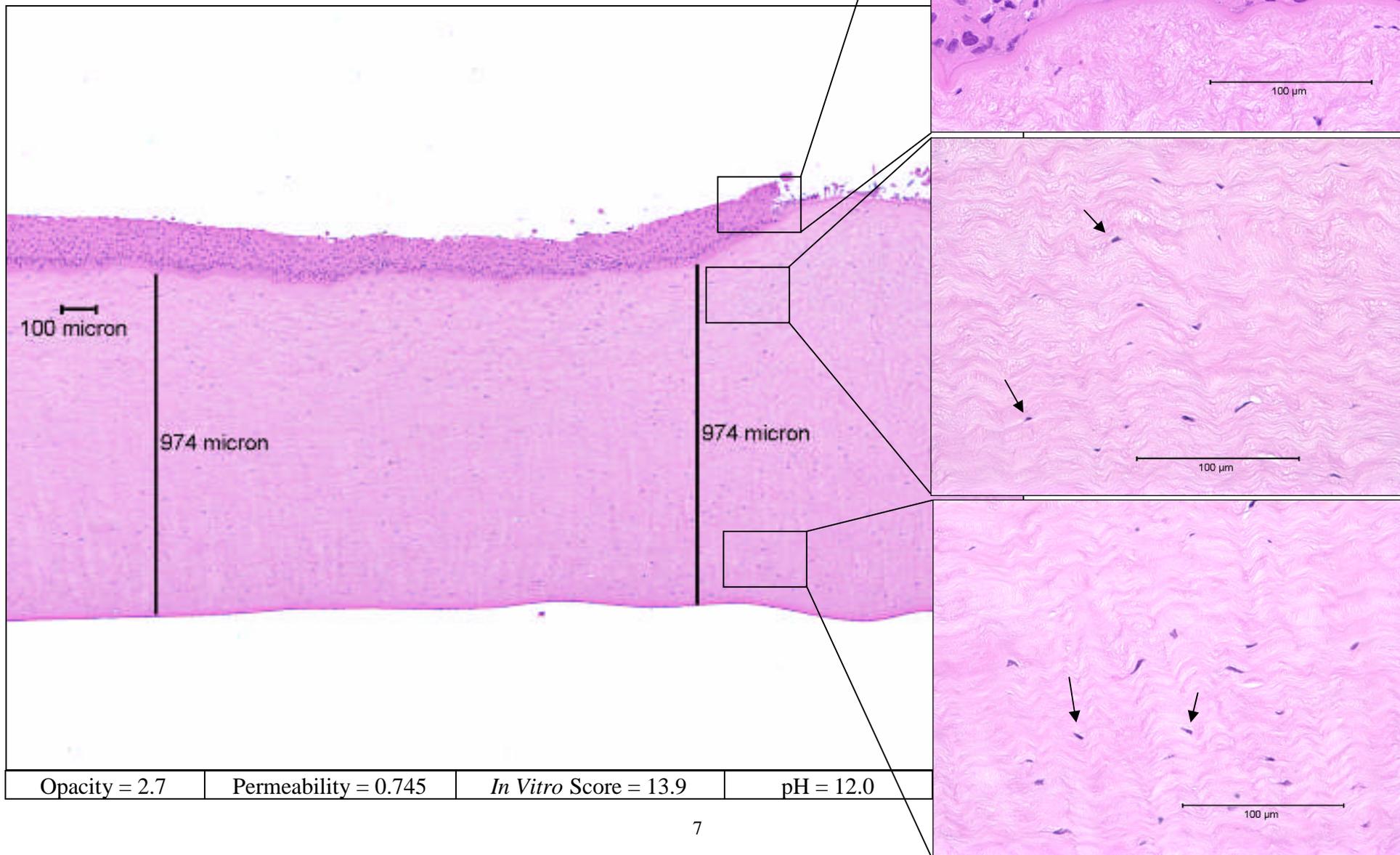
05AD40, neat, aerosol exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x). Upper right - Epithelium showing coagulation (A) of the upper squamous cells, disruption and blanching (B) in the deeper squamous and increased cytoplasmic vacuolization (C) in some of the deep wing and basal cells (magnification 475x). Middle right - Stroma directly below Bowman's Layer showing slight collagen matrix vacuolization and a slight increase in keratocytes with abnormal chromatin condensation (A) and cytoplasmic eosinophilia (B) (magnification 475x). Lower right - Essentially normal stroma below mid depth (magnification 475x).



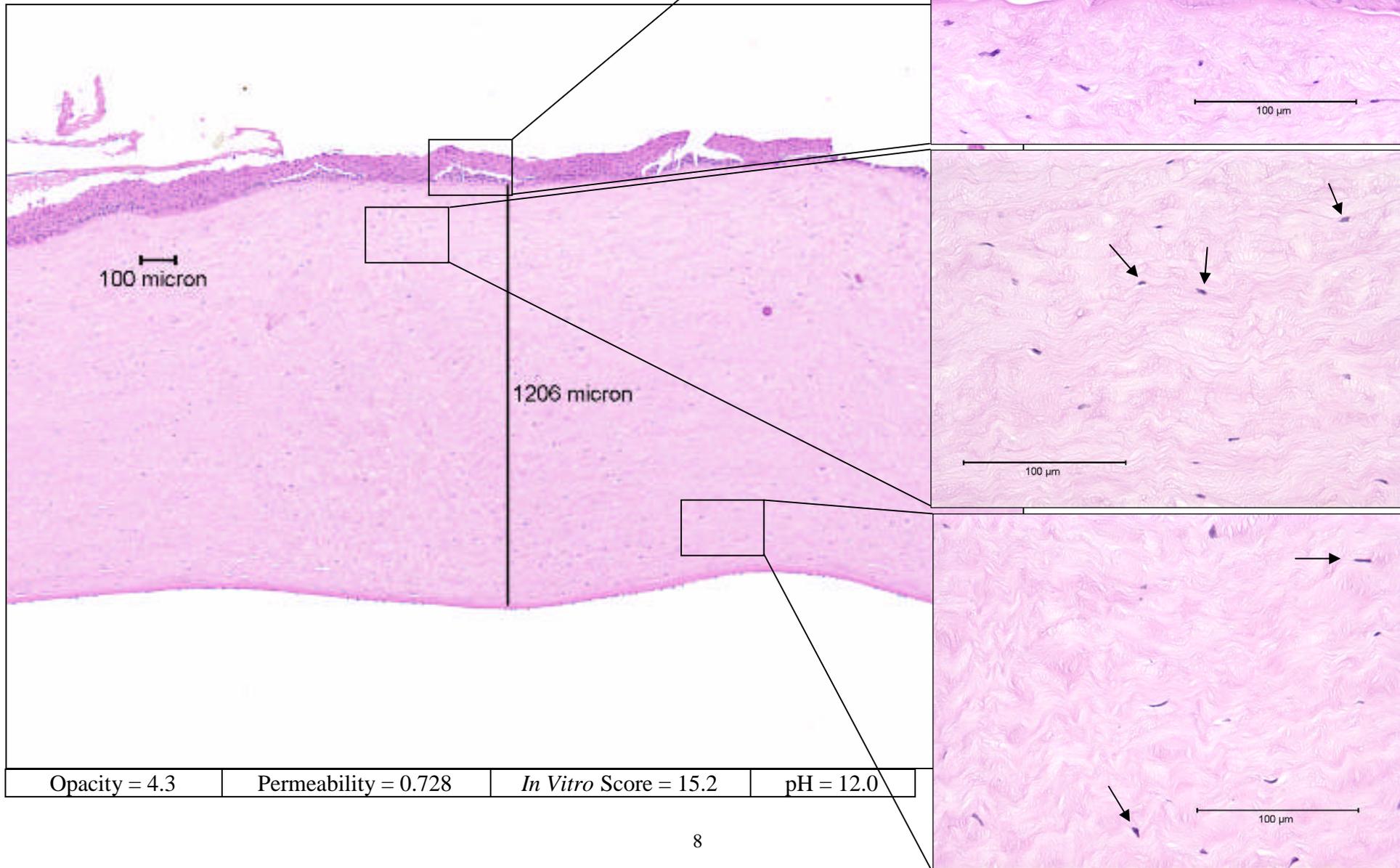
05AD42, neat, installation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x). Upper right - Epithelium showing the loss of the squamous cell layer and an increase in the number of wing and basal cells with cytoplasmic vacuolization (magnification 475x). Lower right - Stroma directly below Bowman's Layer showing moderate collagen matrix vacuolization and an increased number of keratocytes with nuclear enlargement and cytoplasmic eosinophilia (magnification 475x).



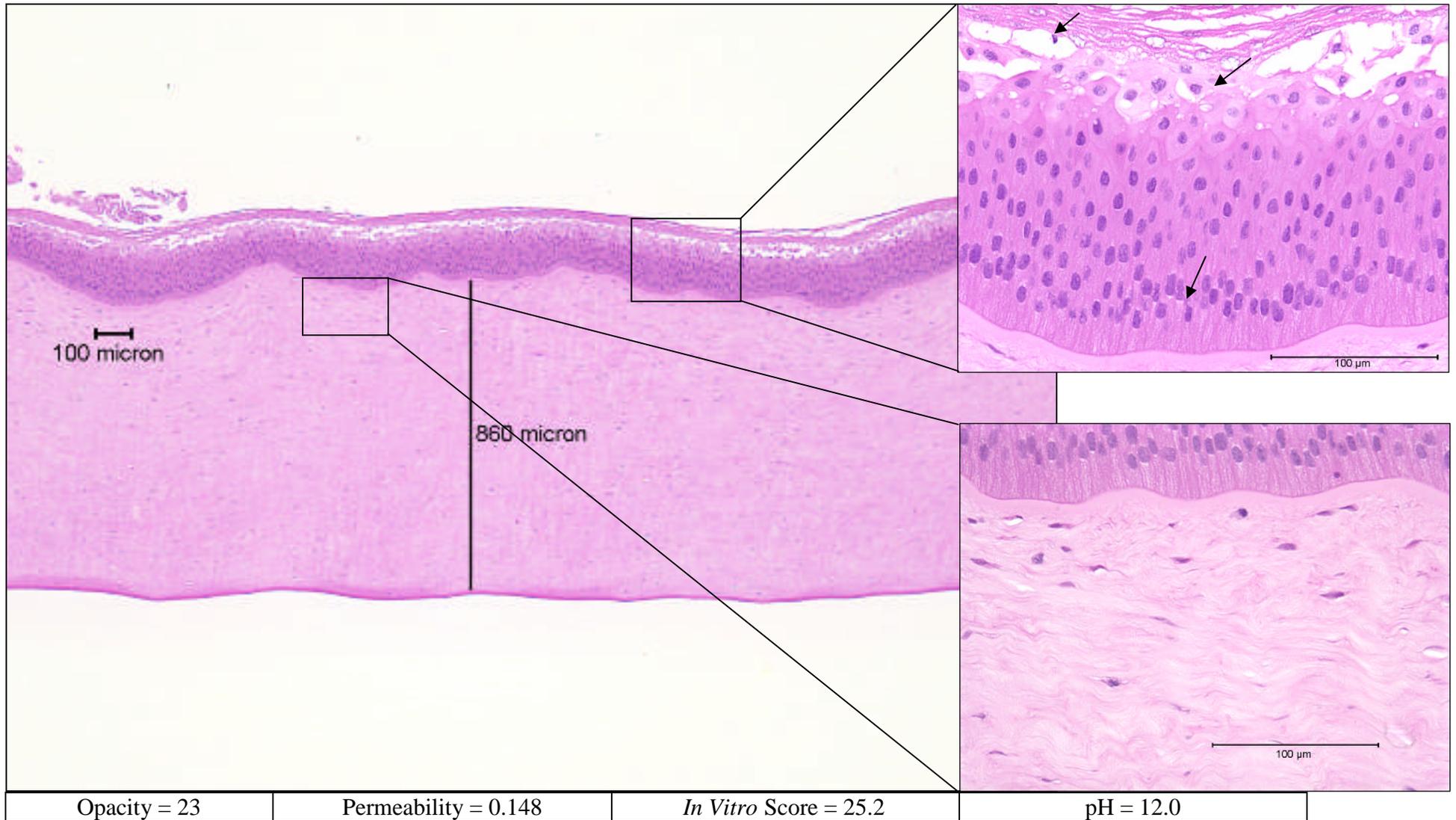
05AE40, neat, 10-minute exposure, 120-minute post-exposure (11/02/05) - Full thickness (mag 48x). Upper right - Epithelium showing the loss of the squamous cell layer, nuclear and cytoplasmic changes in the wing cells and marked degradation of the basal cells (mag 475x). Middle right - Stroma at 20% depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (mag 475x). Upper right - Stroma below mid depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (mag 475x).



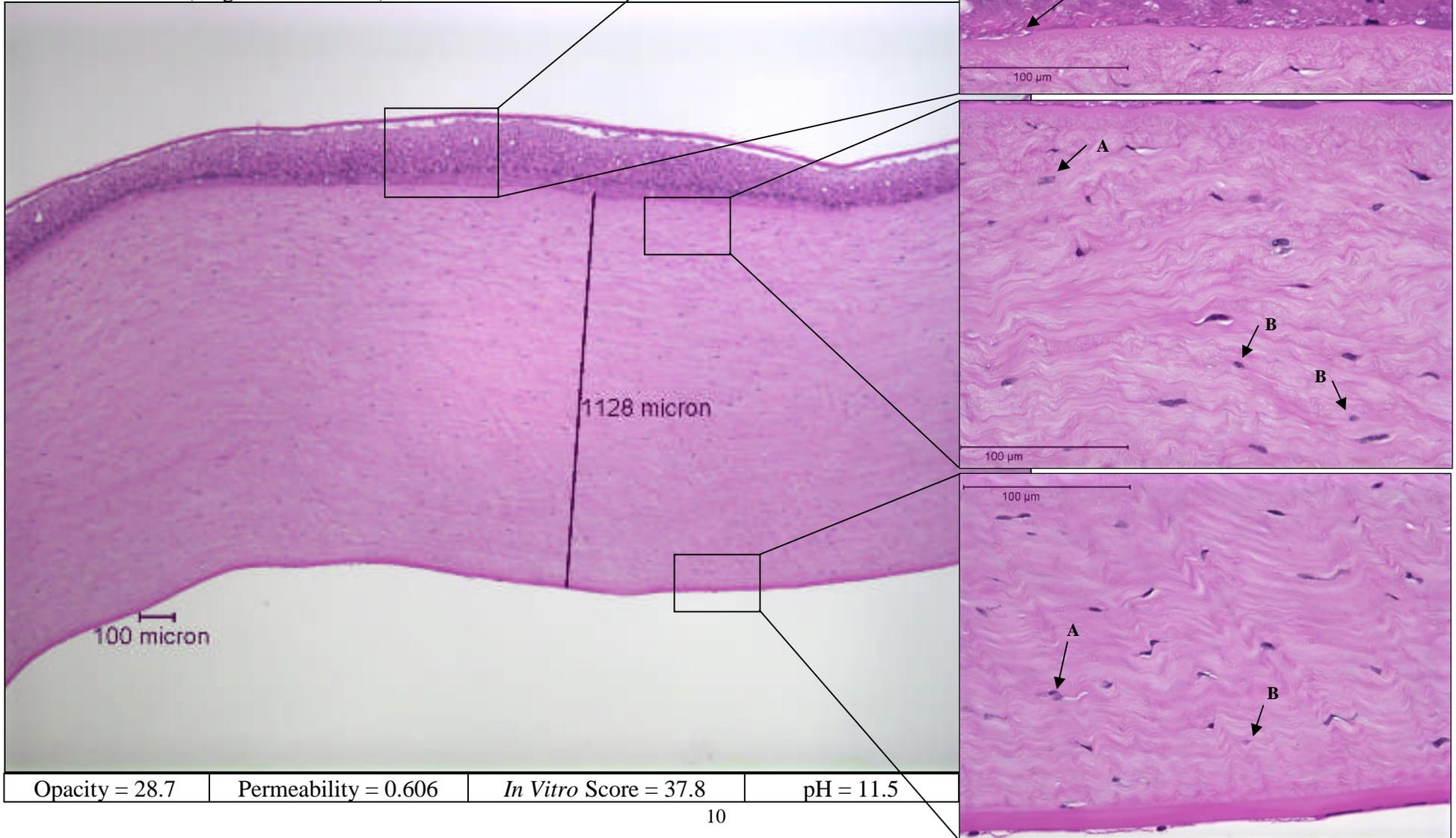
05AE40, neat, 10-minute exposure, 120-minute post-exposure (09/08/05) - Full thickness (magnification 48x). Upper right - Epithelium showing the loss of the squamous cell layer, nuclear and cytoplasmic changes in the wing cells and marked degradation of the basal cells (magnification 475x). Middle right - Stroma at 20% depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (magnification 475x). Lower right - Stroma below mid depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (magnification 475x).



05AD40, neat, instillation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x). Upper right - Epithelium showing coagulation of the upper squamous cells, disruption and blanching in the deeper squamous and increased cytoplasmic vacuolization in some of the deep wing and basal cells (magnification 475x). Lower right - Stroma directly below Bowman's Layer (magnification 475x).

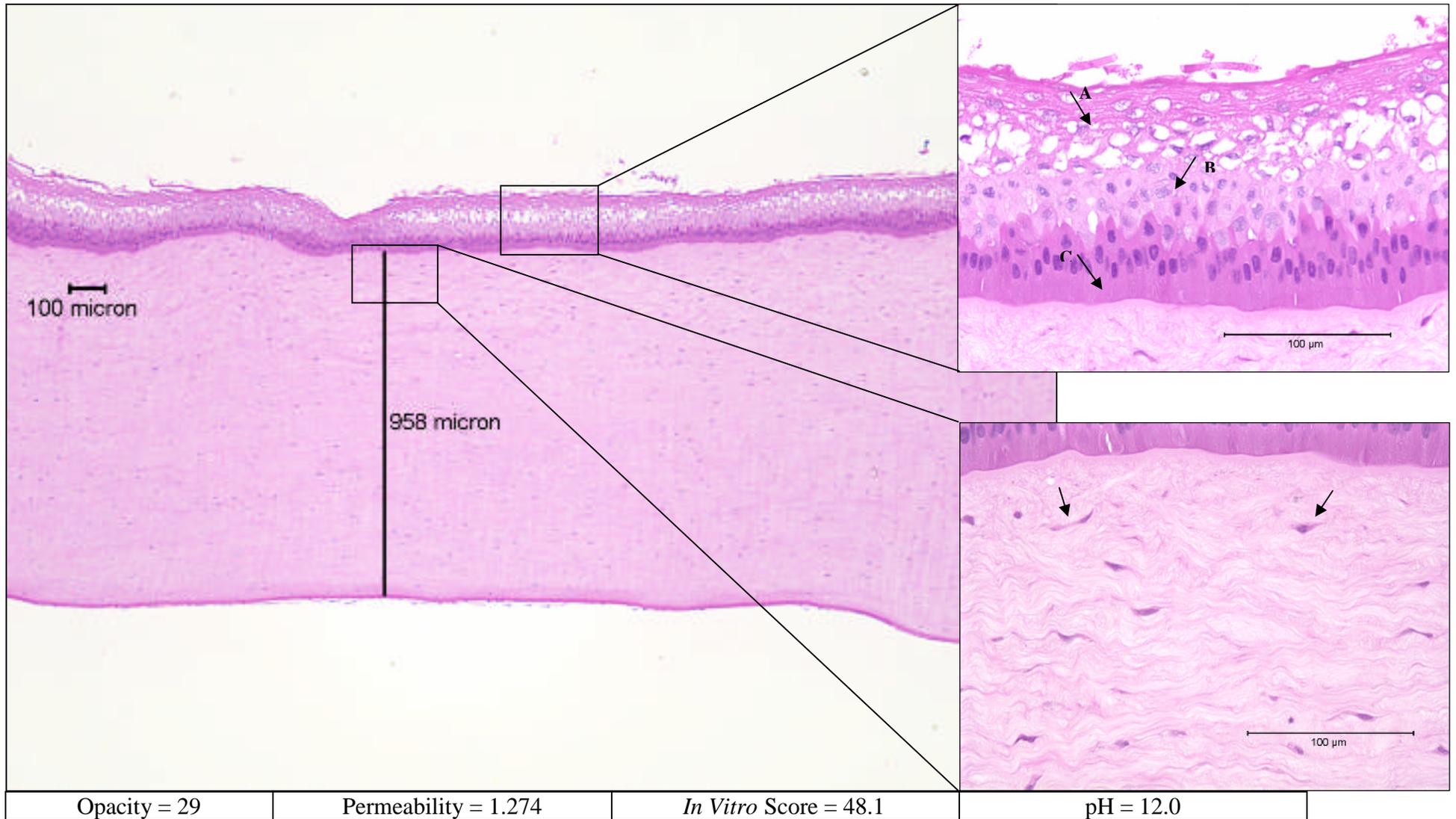


05AF53, neat, 3-minute exposure, 120-minute post-exposure (10/3/05) - Full thickness (magnification 48x). Upper right - Epithelium with detachment of upper squamous layer, severe vacuolation of cellular matrix, and detachment from the basal membrane (magnification 475x). Middle right -Stroma directly beneath Bowman's layer showing mild collagen matrix vacuolation with severe cellular vacuolation (A). There was also a significant amount of pyknotic nuclei (B). (magnification 475x). Lower right - Stroma below mid depth there was minimal cellular vacuolation (A) and pyknotic nuclei (B). The collagen matrix was generally intact. The endothelium was generally detached from Descemet's membrane with vacuolation through the cellular structures. (magnification 475x).

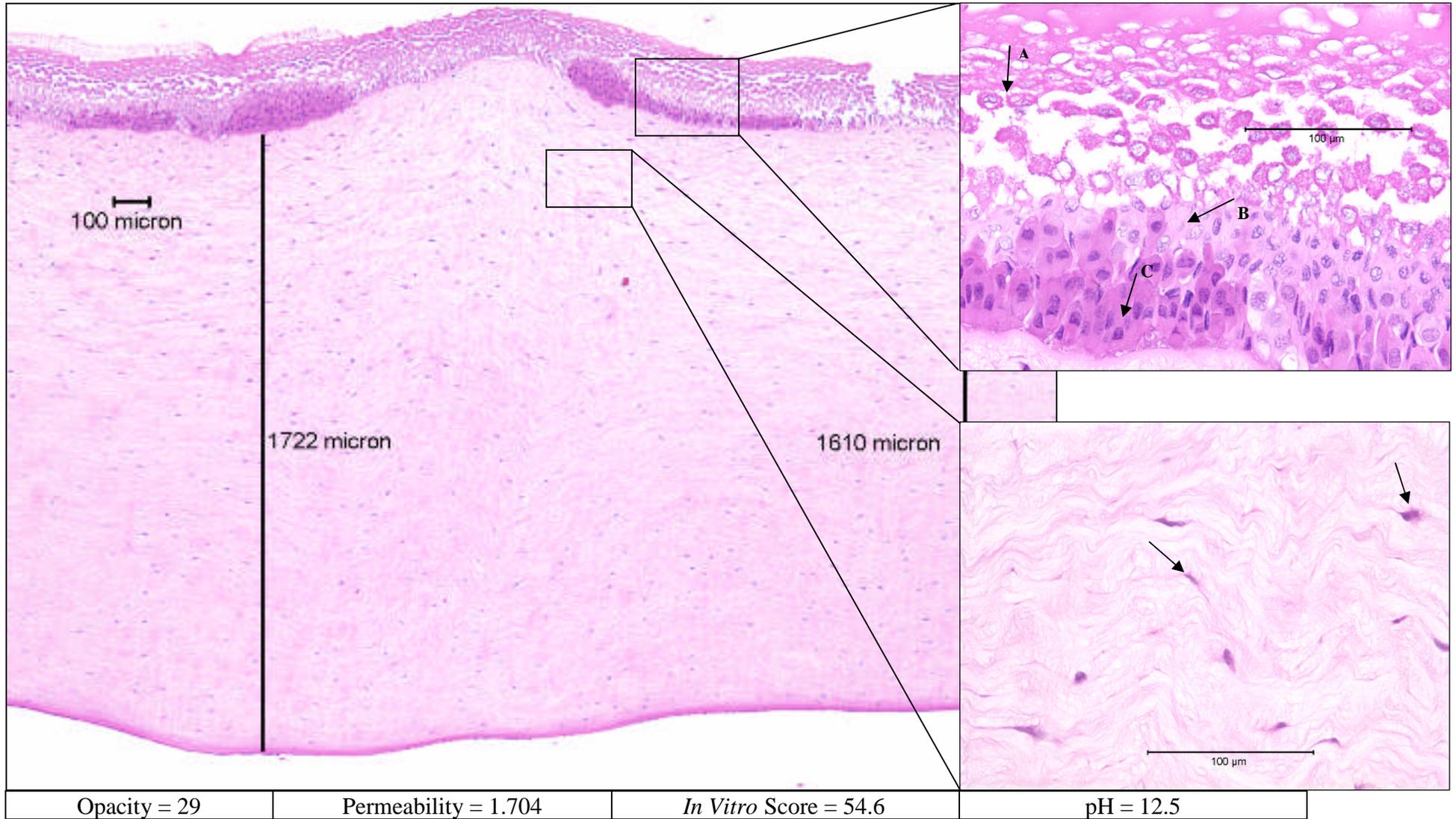


Opacity = 28.7	Permeability = 0.606	<i>In Vitro</i> Score = 37.8	pH = 11.5
----------------	----------------------	------------------------------	-----------

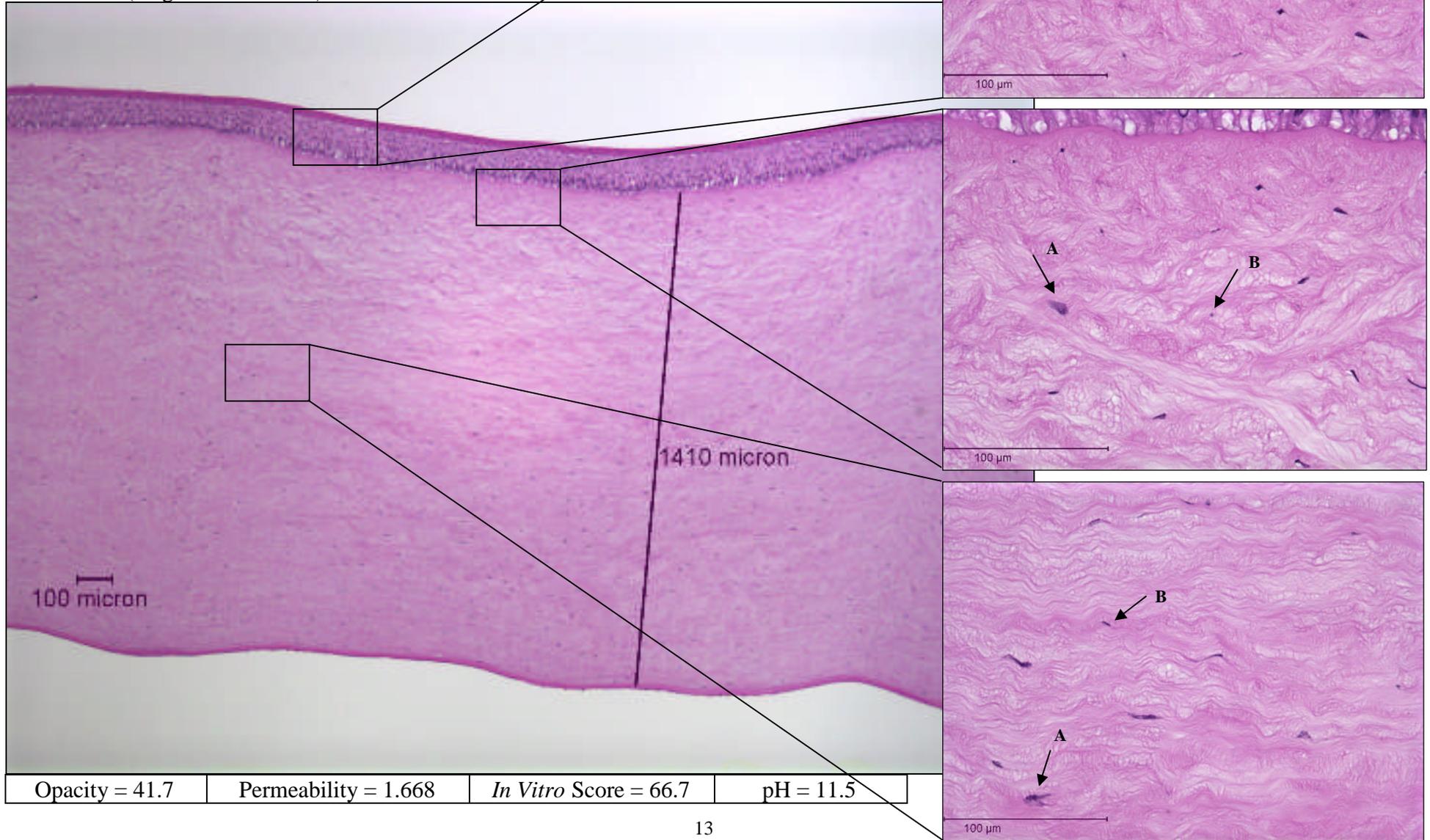
05AD40, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x). Upper right - Epithelium showing coagulation (A) of the squamous layer, blanching (B) of the wing cell layer, and an intact basal layer (C) (magnification 475x). Lower right - Stroma directly below Bowman's Layer showing slight collagen matrix vacuolization and a slight increase in the number of keratocytes with slight cytoplasmic eosinophilia (magnification 475x).



05AD42, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x). Upper right - Epithelium showing coagulation/loss (A) of the squamous and wing cell layers, blanching (B) of parts of the basal layer and abnormal chromatin condensation and cytoplasmic eosinophilia (C) in the remaining basal cells (magnification 475x). Lower right - Stroma at 20% depth showing marked collagen matrix vacuolization and a marked increase in keratocytes with enlarged nuclei and cytoplasmic eosinophilia (magnification 475x).

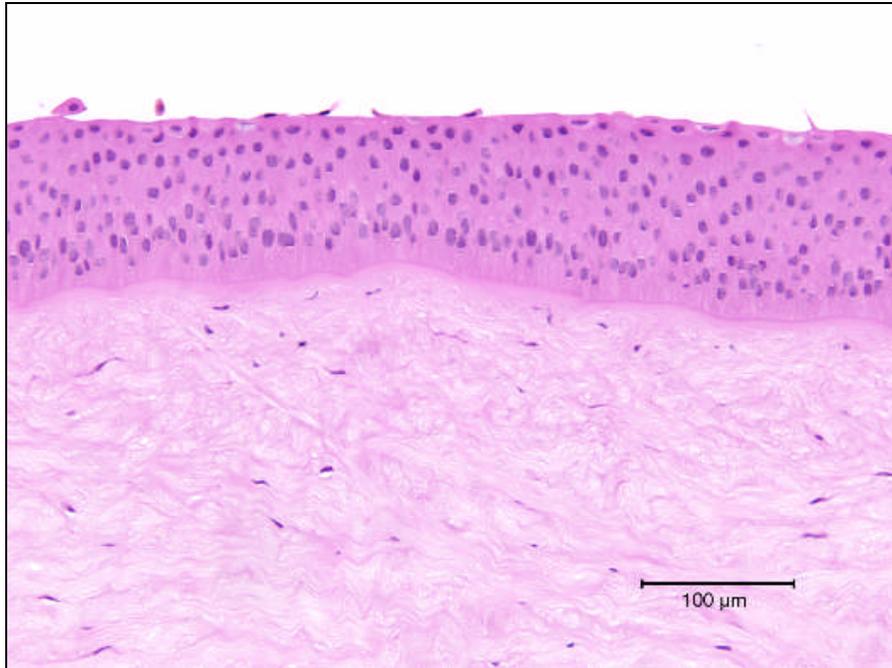


05AF53, neat, 10-minute exposure, 120-minute post-exposure (10/3/05) - Full thickness (magnification 48x). Upper right - Epithelium with detachment of upper squamous layer, severe vacuolation of cellular matrix, and weak attachment to the basal membrane (magnification 475x). Middle right - Stroma directly beneath Bowman's layer showing severe collagen matrix vacuolation with moderate cellular vacuolation (A). There was also a significant amount of pyknotic nuclei (B). (magnification 475x). Lower right - Stroma near mid depth showing cellular vacuolation (A) and significant amounts of pyknotic nuclei (B). The collagen matrix had moderate vacuolation. (magnification 475x).



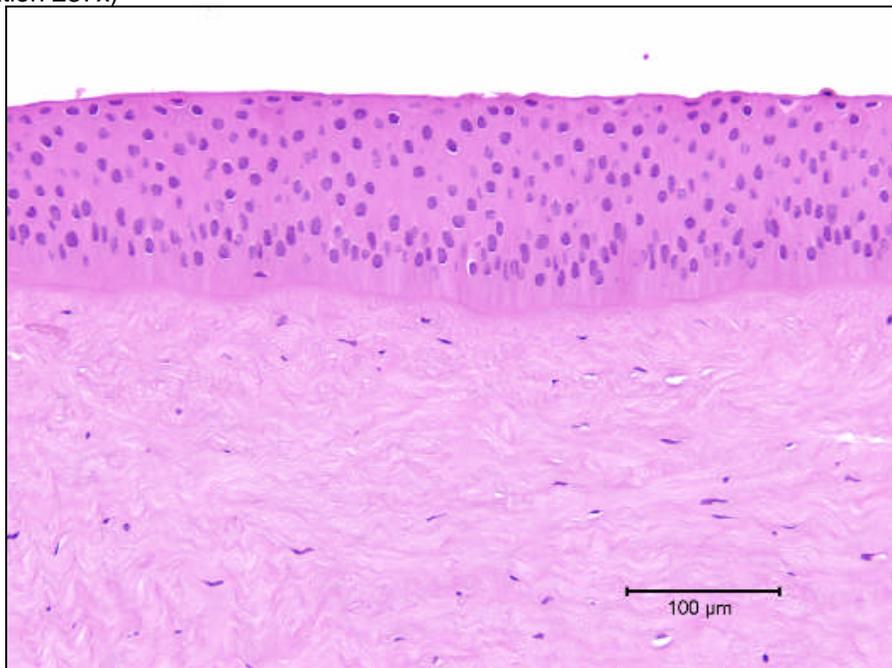
Epithelium:

05AE40, neat, 3-minute exposure, 120-minute post-exposure (09/08/05) - Epithelium (magnification 237x)



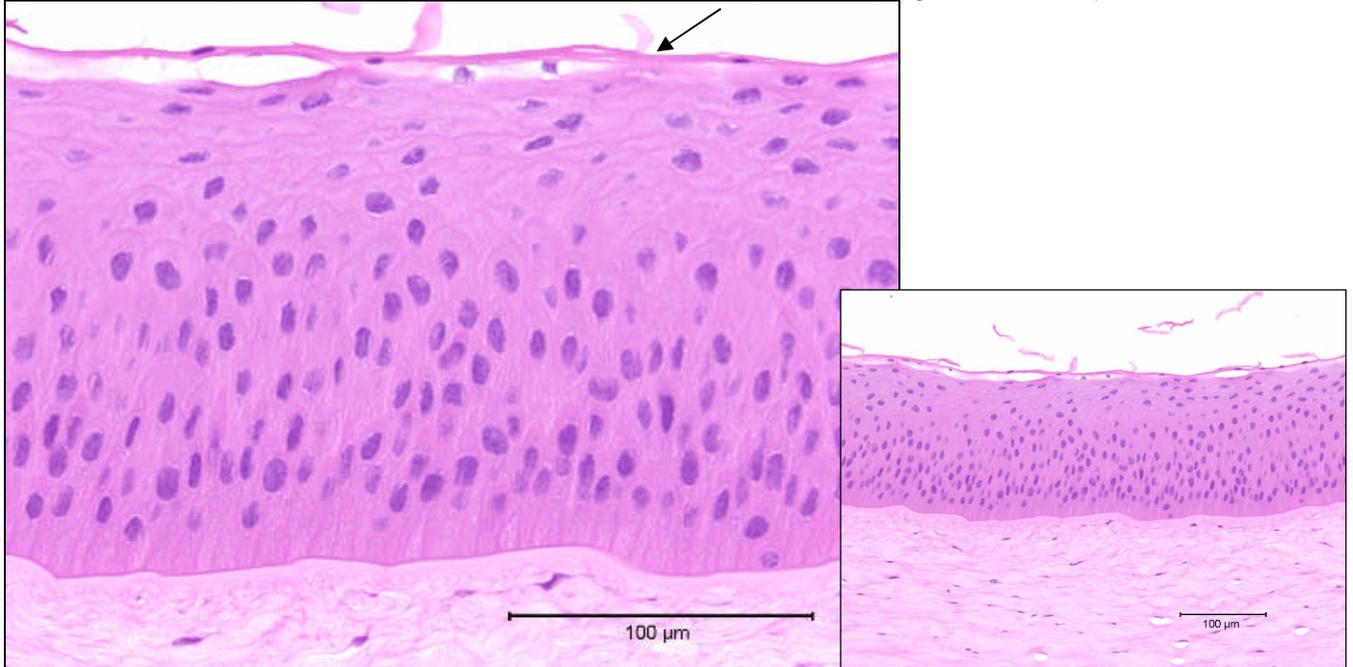
Opacity = 0	Permeability = 0.139	<i>In Vitro</i> Score = 2.1	pH = 12.0
-------------	----------------------	-----------------------------	-----------

05AE40, neat, 3-minute exposure, 120-minute post-exposure (11/02/05) - Epithelium (magnification 237x)



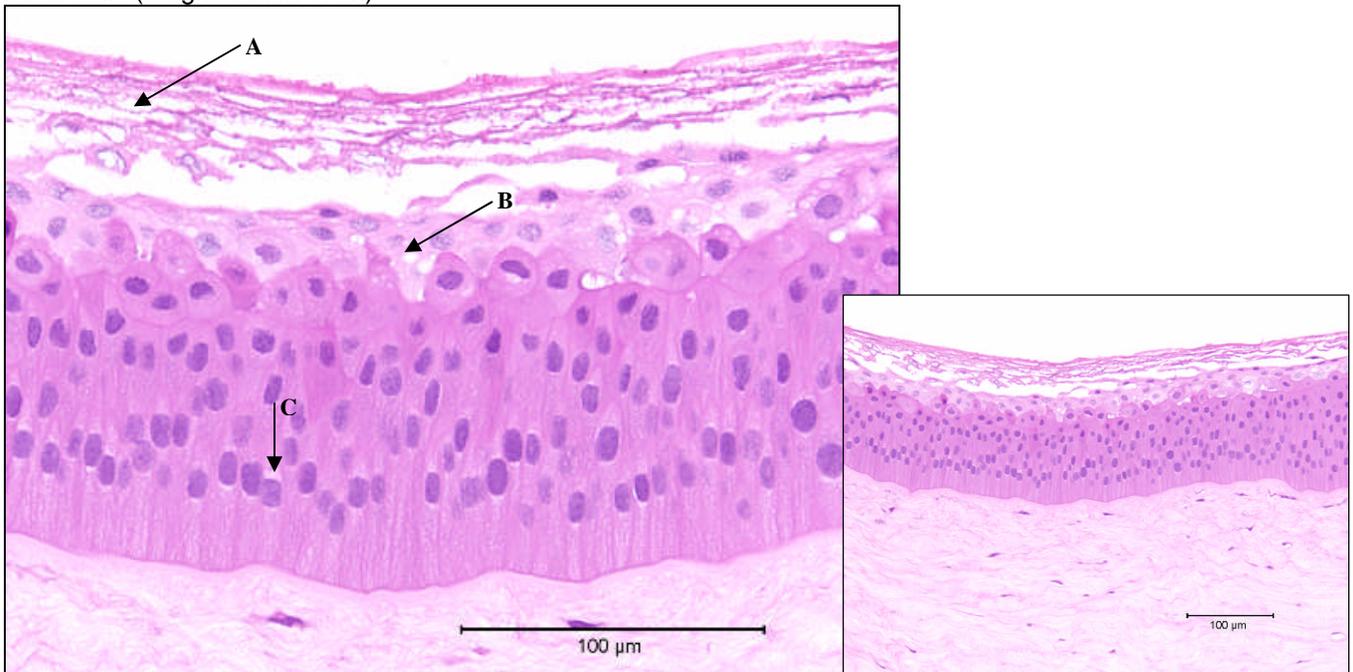
Opacity = 1	Permeability = 0.14	<i>In Vitro</i> Score = 3.1	pH = 12.0
-------------	---------------------	-----------------------------	-----------

05AD40, neat, aerosol exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Epithelium showing the loss of some of the surface squamous epithelium (magnification 475x)



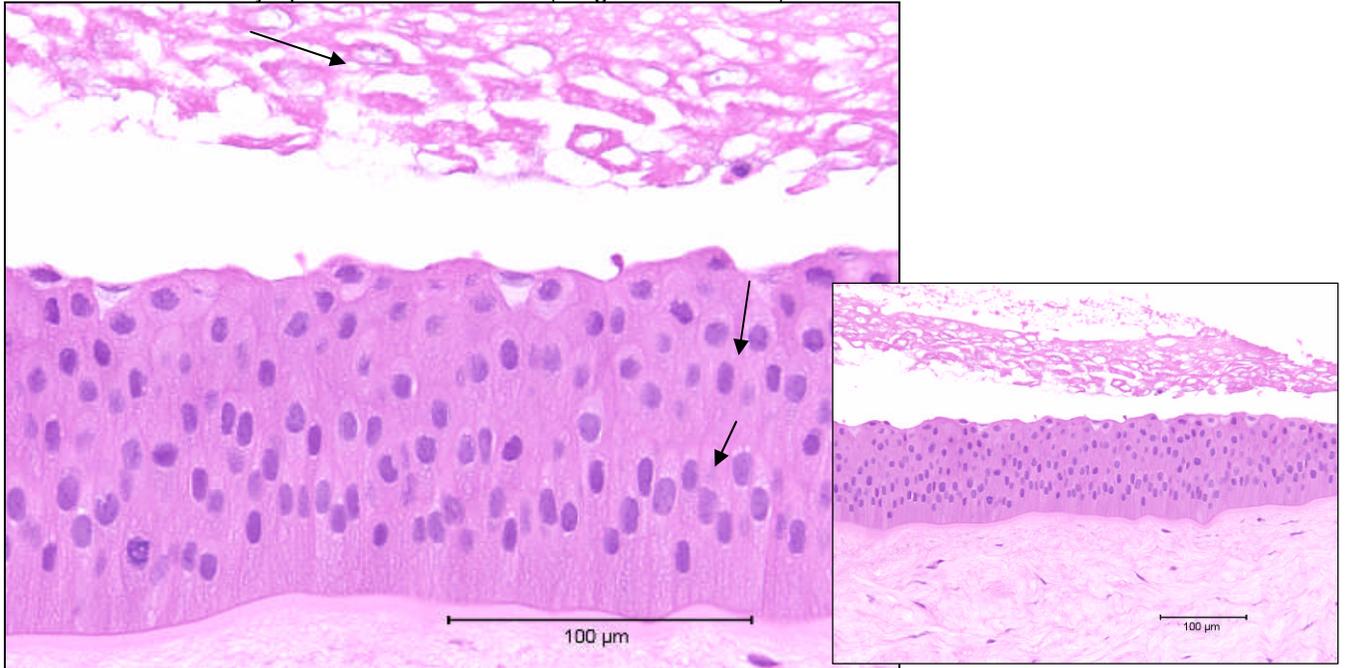
Opacity = 3.3	Permeability = 0.008	<i>In Vitro</i> Score = 3.5	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AD40, neat, aerosol exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Epithelium showing coagulation (A) of the upper squamous cells, disruption and blanching (B) in the deeper squamous and increased cytoplasmic vacuolization (C) in some of the deep wing and basal cells (magnification 475x)



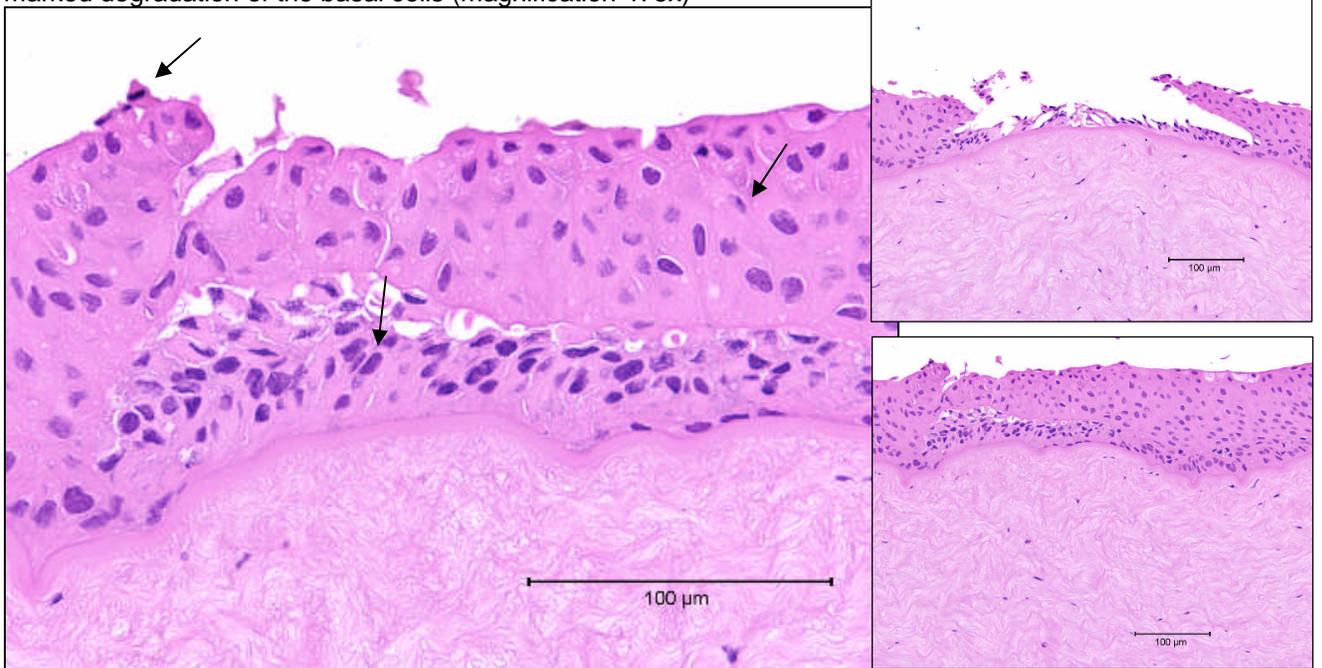
Opacity = 3.7	Permeability = 0.014	<i>In Vitro</i> Score = 3.9	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AD42, neat, installation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Epithelium showing the loss of the squamous cell layer and an increase in the number of wing and basal cells with cytoplasmic vacuolization (magnification 475x)



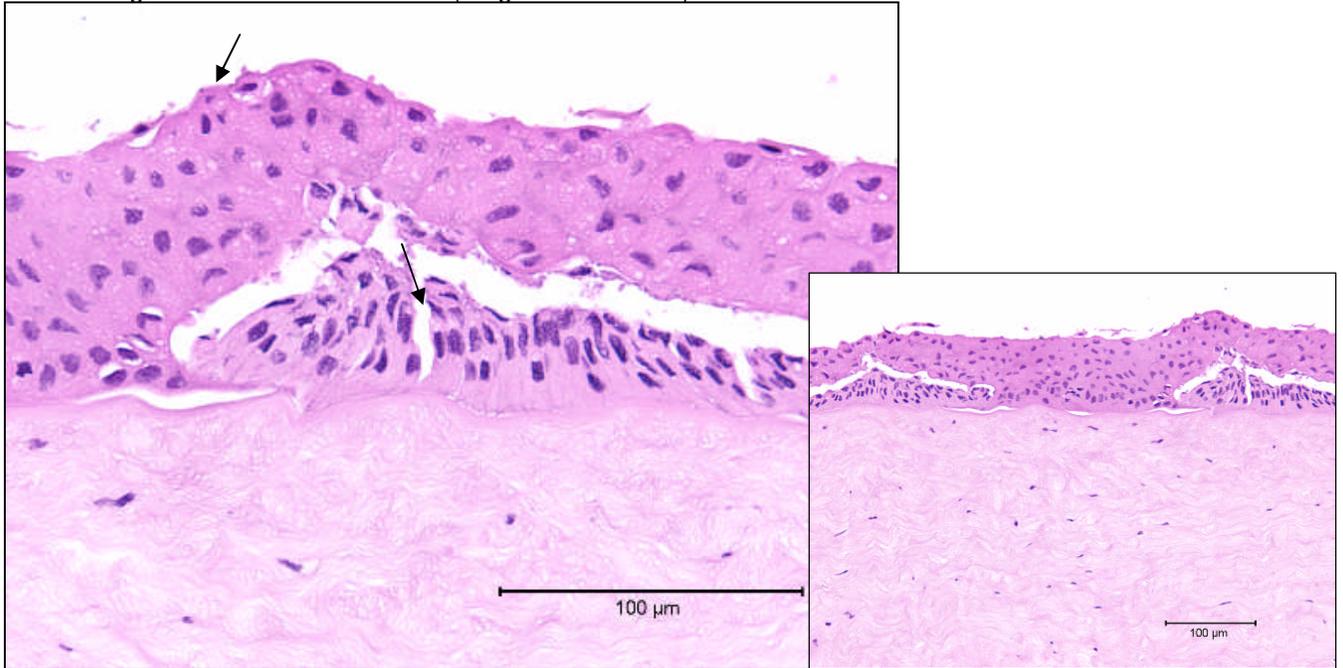
Opacity = 4.3	Permeability = 0.258	<i>In Vitro</i> Score = 8.2	pH = 12.5
---------------	----------------------	-----------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (11/02/05) - Epithelium showing the loss of the squamous cell layer, nuclear and cytoplasmic changes in the wing cells and marked degradation of the basal cells (magnification 475x)



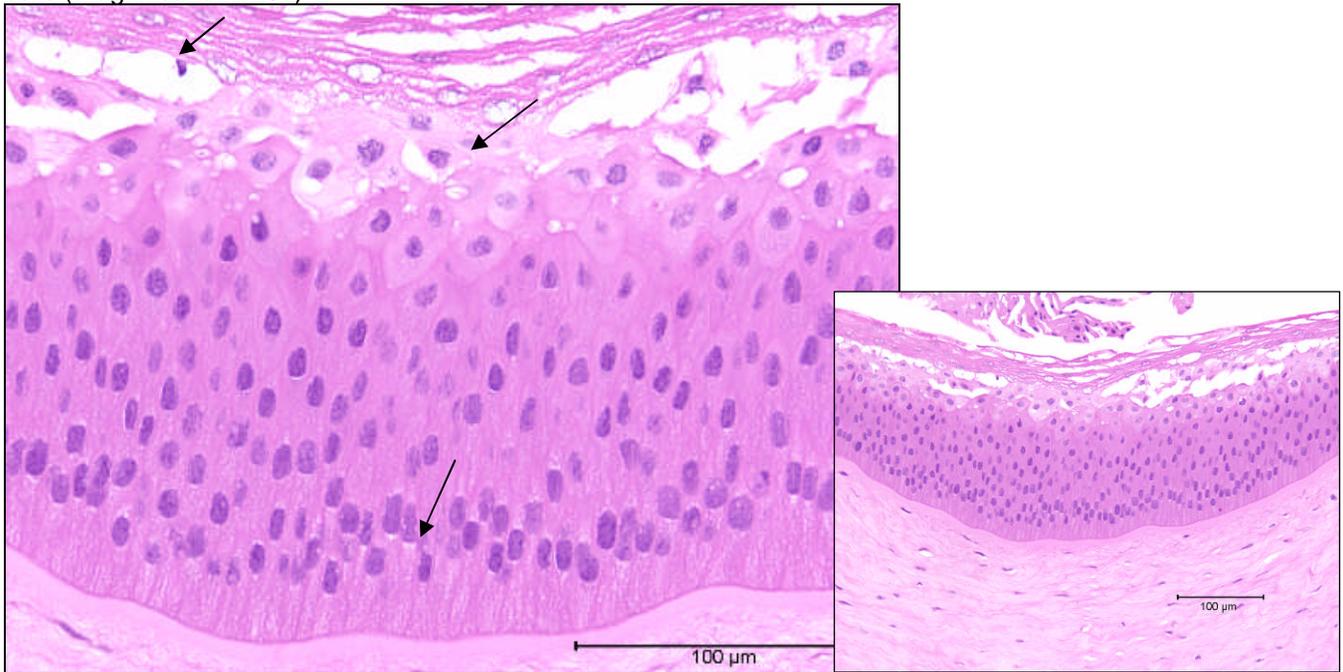
Opacity = 2.7	Permeability = 0.745	<i>In Vitro</i> Score = 13.9	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (09/08/05) - Epithelium showing the loss of the squamous cell layer, nuclear and cytoplasmic changes in the wing cells and marked degradation of the basal cells (magnification 475x)



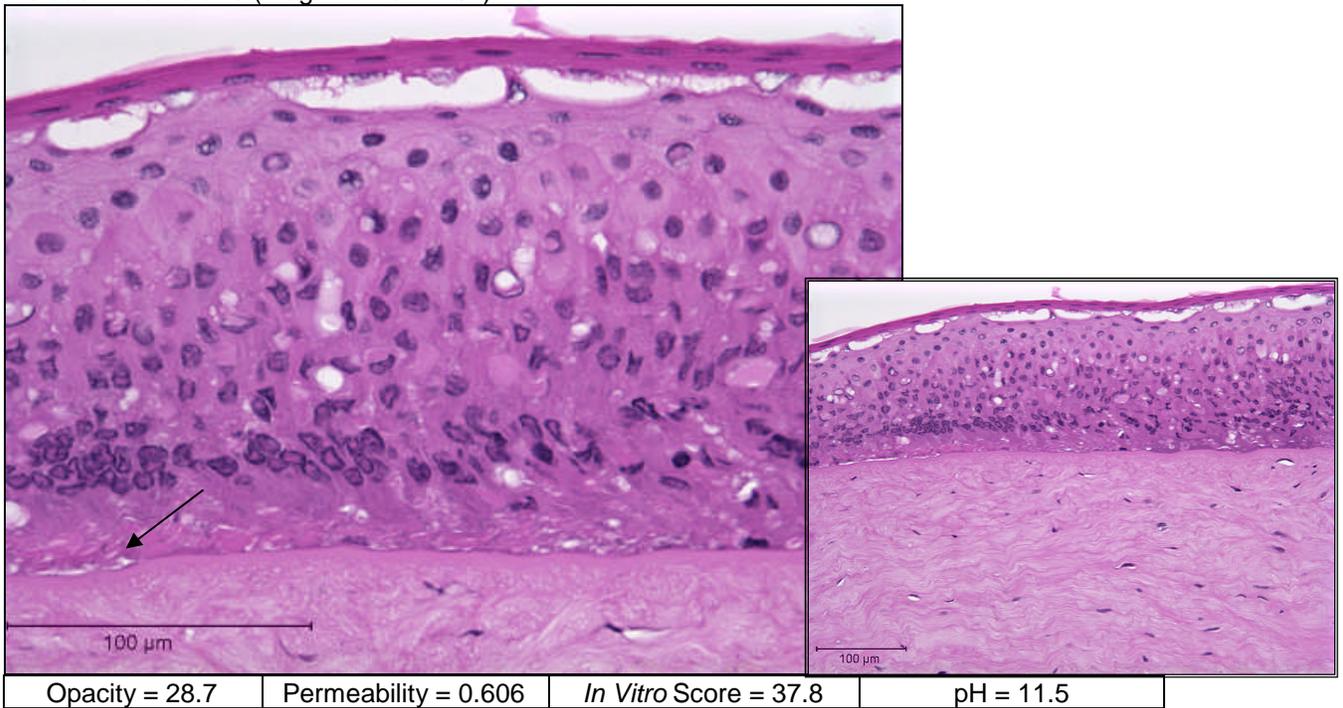
Opacity = 4.3	Permeability = 0.728	<i>In Vitro</i> Score = 15.2	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AD40, neat, instillation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Epithelium showing coagulation of the upper squamous cells, disruption and blanching in the deeper squamous and increased cytoplasmic vacuolization in some of the deep wing and basal cells (magnification 475x)

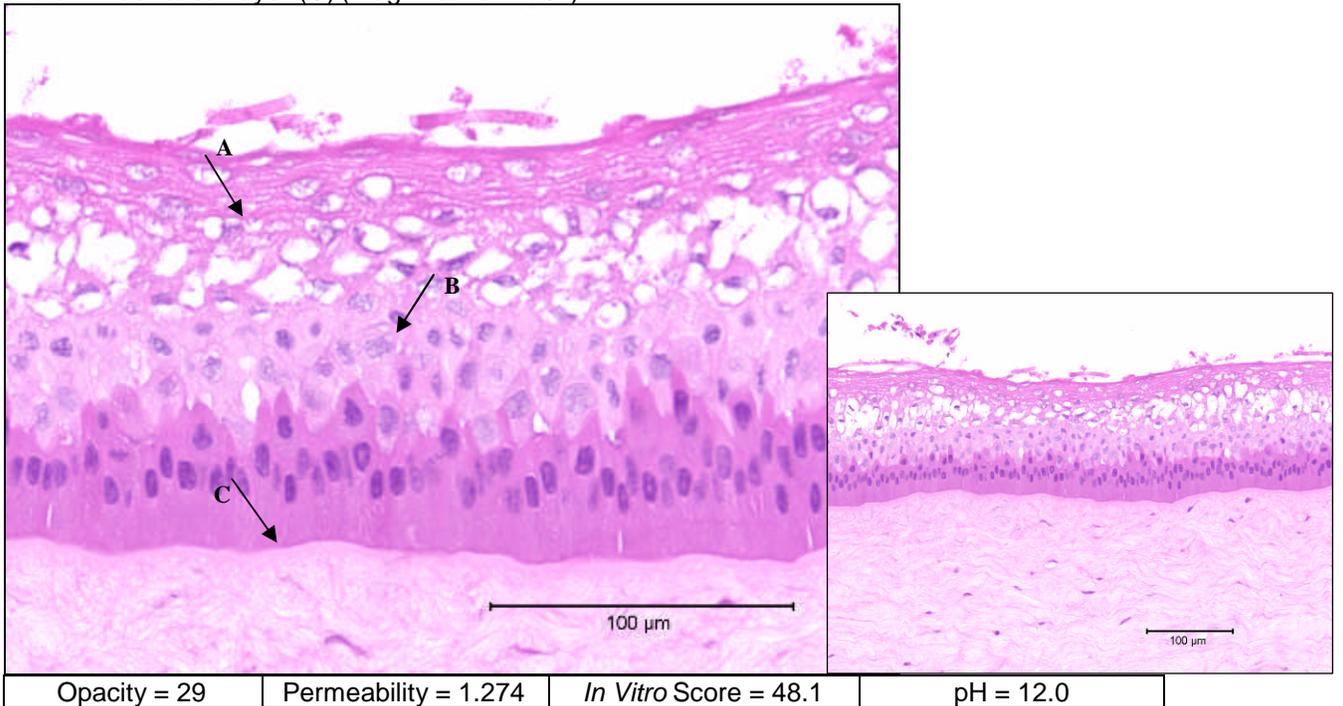


Opacity = 23	Permeability = 0.148	<i>In Vitro</i> Score = 25.2	pH = 12.0
--------------	----------------------	------------------------------	-----------

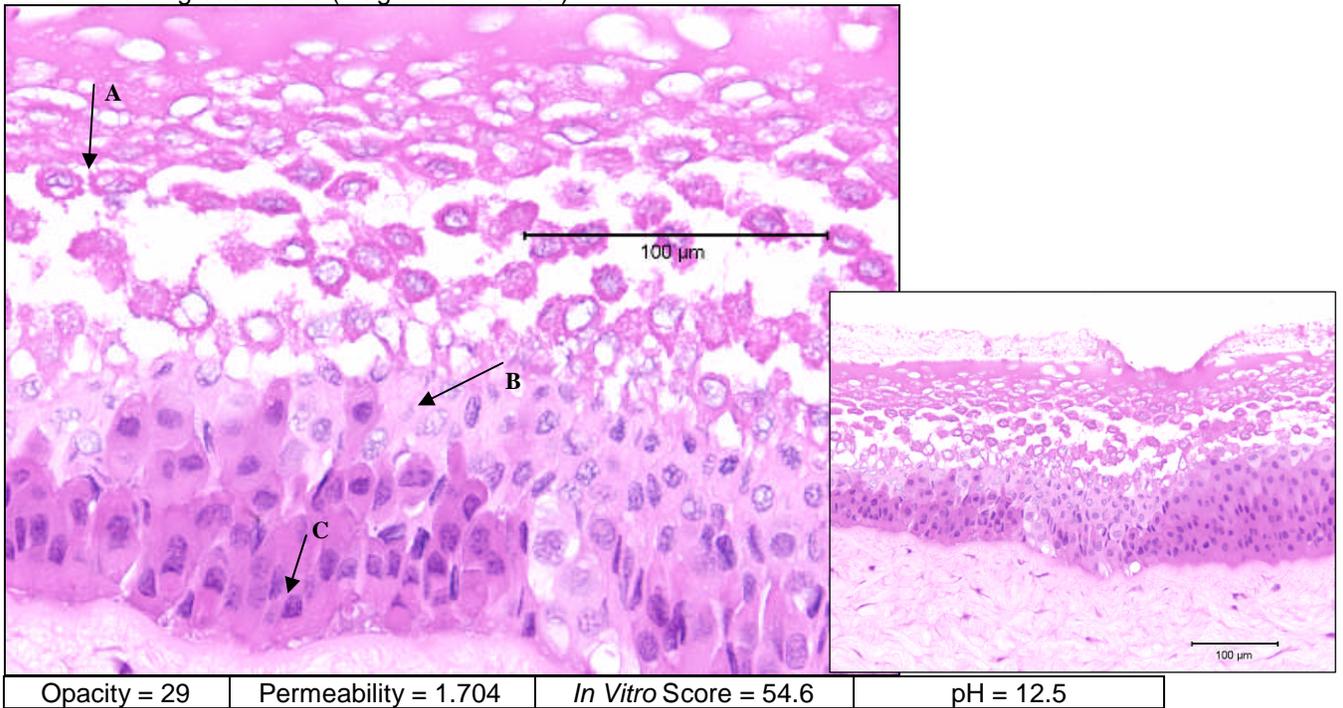
05AF53, neat, 3-minute exposure, 120-minute post-exposure (10/3/05) - Epithelium with detachment of upper squamous layer, severe vacuolation of cellular matrix, and detachment from the basal membrane (magnification 475x)



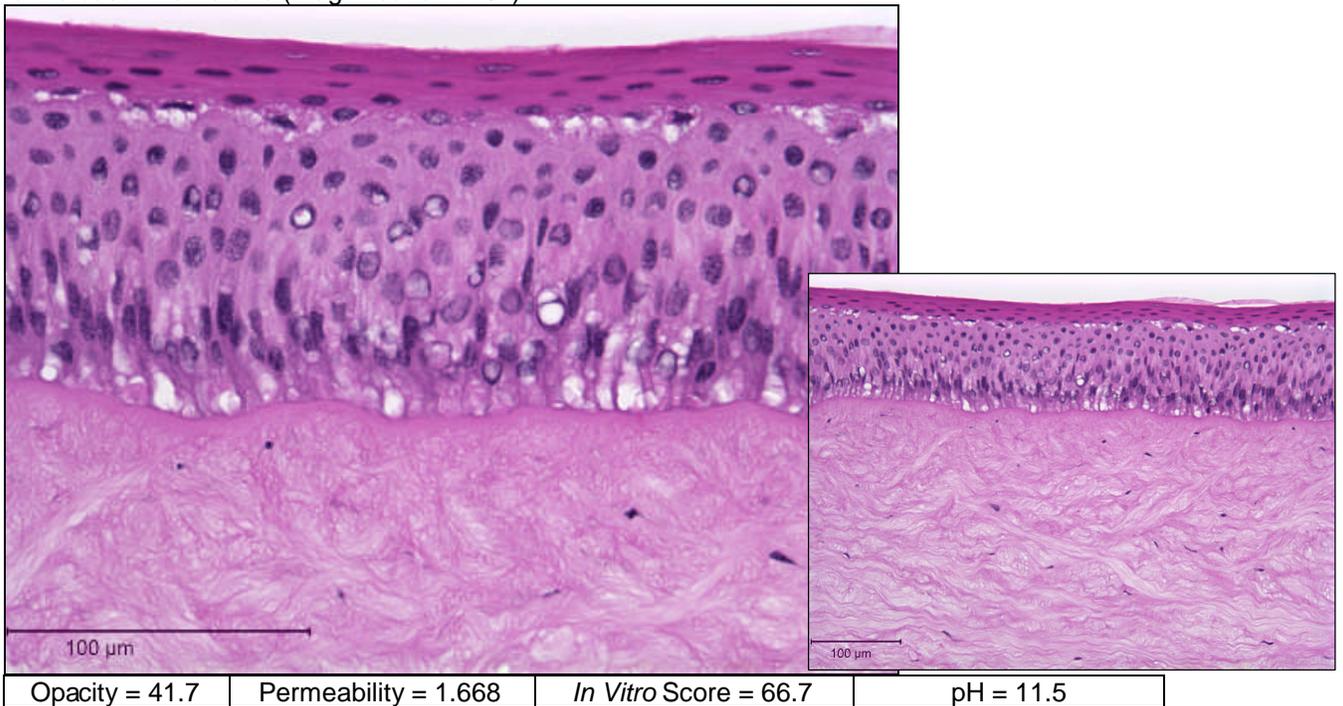
05AD40, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Epithelium showing coagulation (A) of the squamous layer, blanching (B) of the wing cell layer, and an intact basal layer (C) (magnification 475x)



05AD42, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Epithelium showing coagulation/loss (A) of the squamous and wing cell layers, blanching (B) of parts of the basal layer and abnormal chromatin condensation and cytoplasmic eosinophilia (C) in the remaining basal cells (magnification 475x)

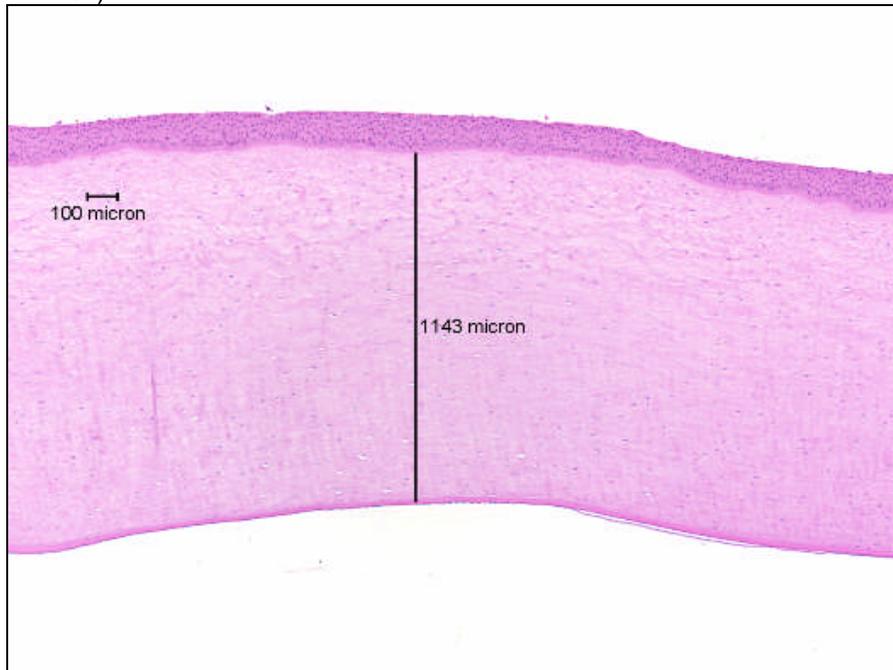


05AF53, neat, 10-minute exposure, 120-minute post-exposure (10/3/05) - Epithelium with detachment of upper squamous layer, severe vacuolation of cellular matrix, and weak attachment to the basal membrane (magnification 475x)



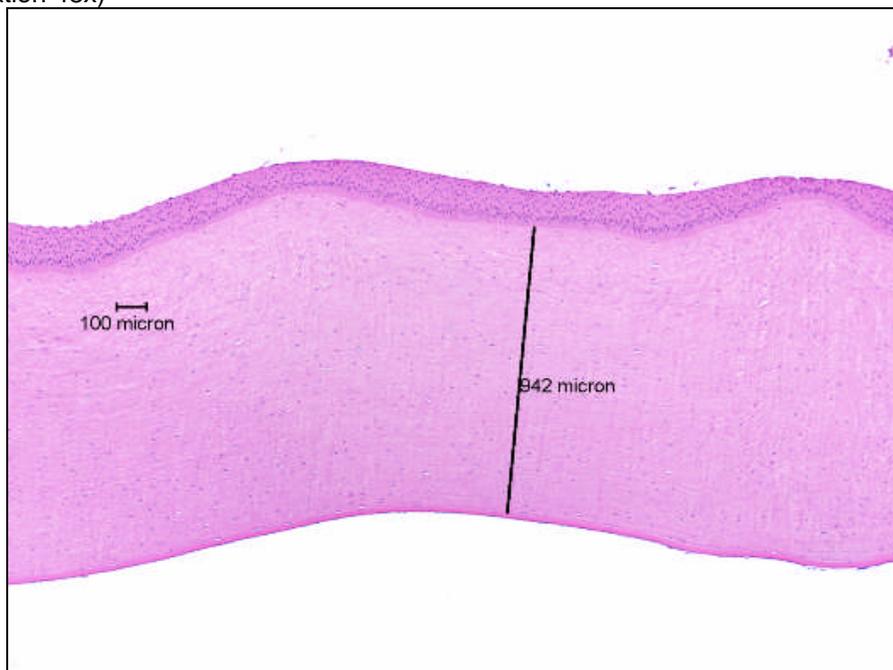
Full Thickness:

05AE40, neat, 3-minute exposure, 120-minute post-exposure (09/08/05) - Full thickness (magnification 48x)



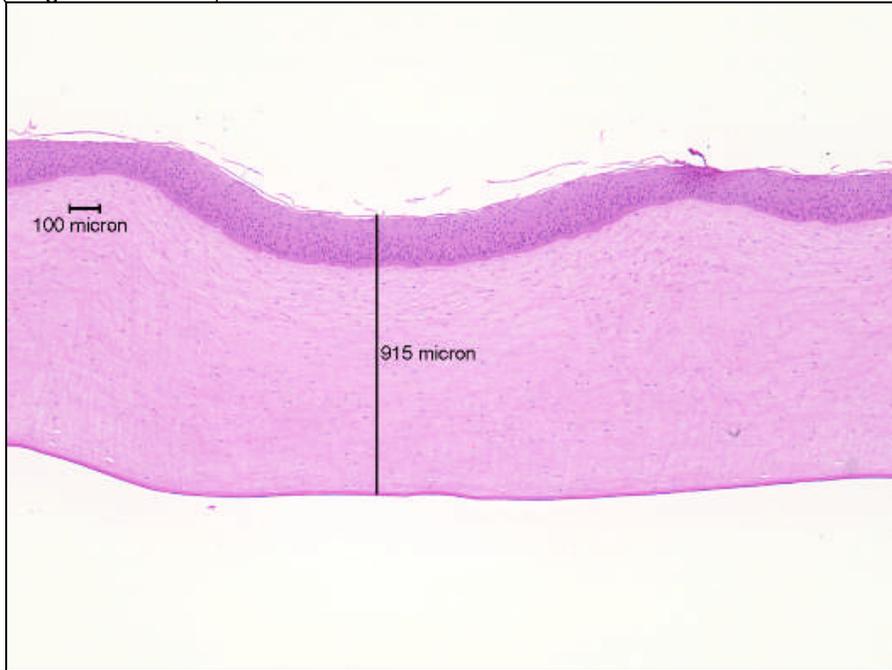
Opacity = 0	Permeability = 0.139	<i>In Vitro</i> Score = 2.1	pH = 12.0
-------------	----------------------	-----------------------------	-----------

05AE40, neat, 3-minute exposure, 120-minute post-exposure (11/02/05) - Full thickness (magnification 48x)



Opacity = 1	Permeability = 0.14	<i>In Vitro</i> Score = 3.1	pH = 12.0
-------------	---------------------	-----------------------------	-----------

05AD40, neat, aerosol exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x)



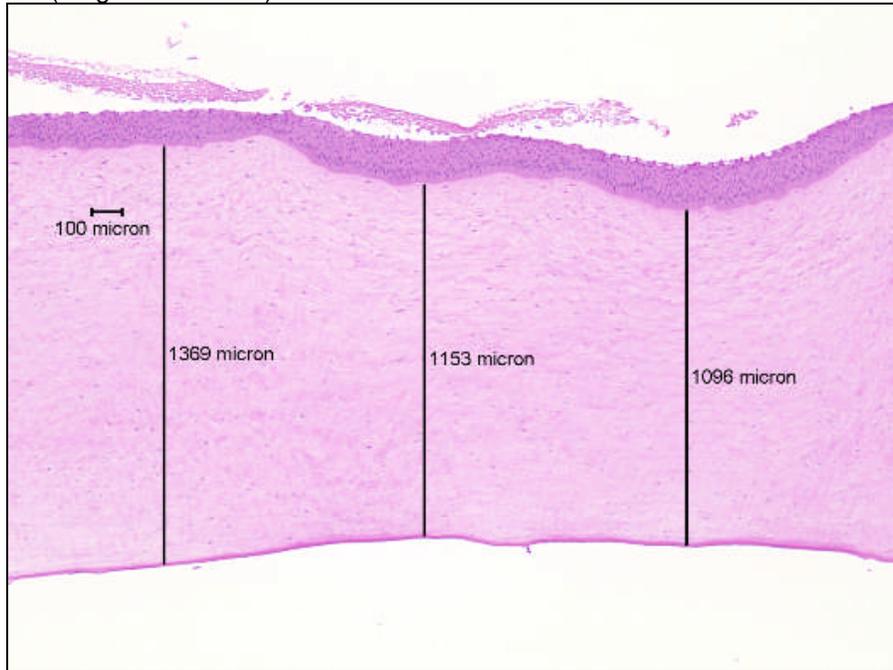
Opacity = 3.3	Permeability = 0.008	<i>In Vitro</i> Score = 3.5	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AD40, neat, aerosol exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x)



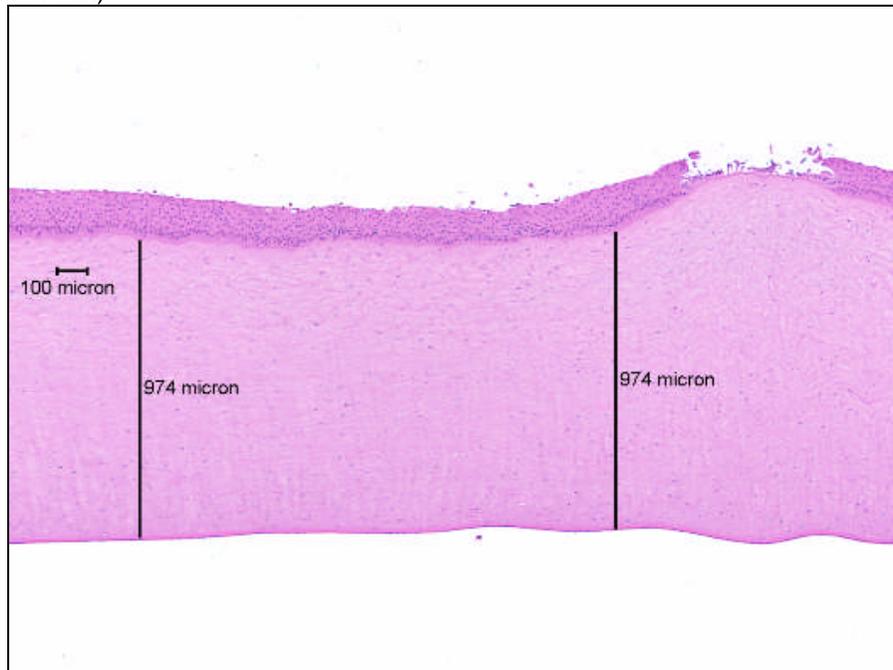
Opacity = 3.7	Permeability = 0.014	<i>In Vitro</i> Score = 3.9	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AD42, neat, installation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x)



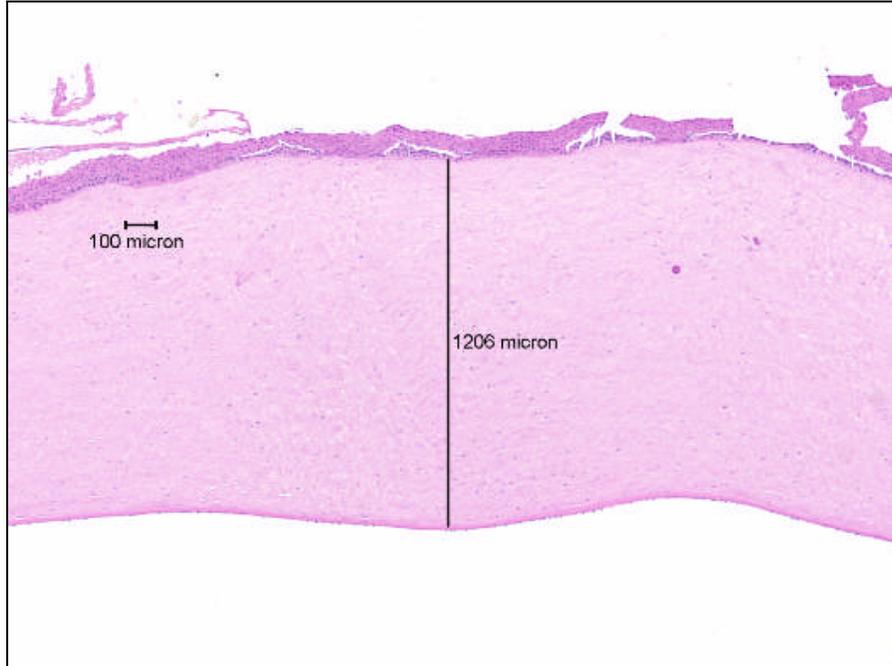
Opacity = 4.3	Permeability = 0.258	<i>In Vitro</i> Score = 8.2	pH = 12.5
---------------	----------------------	-----------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (11/02/05) - Full thickness (magnification 48x)



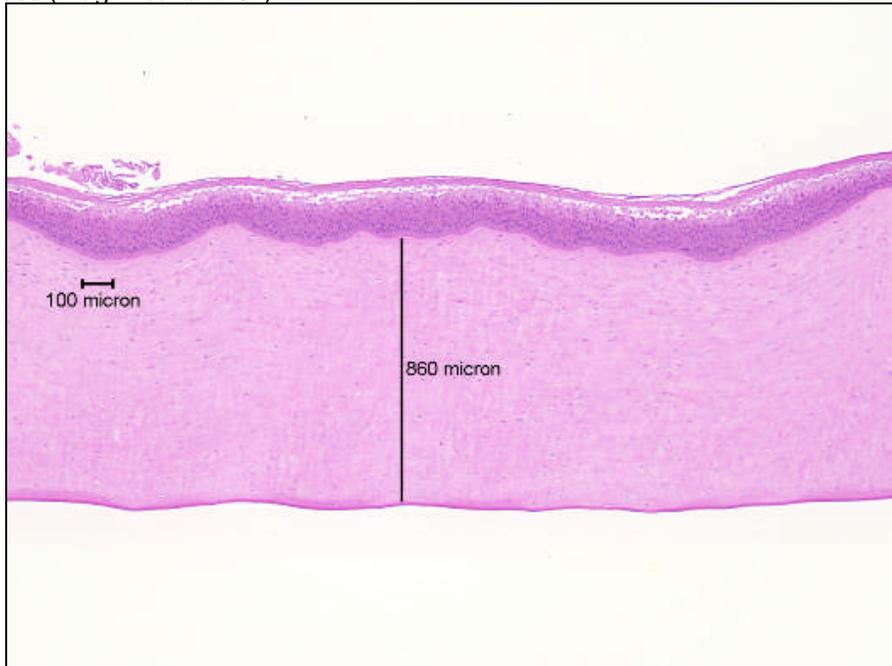
Opacity = 2.7	Permeability = 0.745	<i>In Vitro</i> Score = 13.9	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (09/08/05) - Full thickness (magnification 48x)



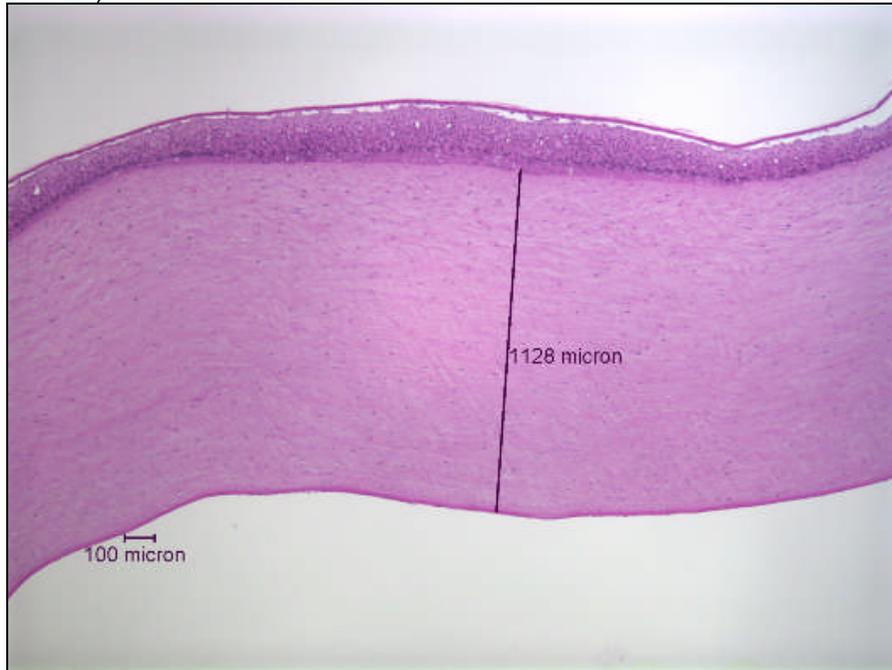
Opacity = 4.3	Permeability = 0.728	<i>In Vitro</i> Score = 15.2	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AD40, neat, instillation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x)



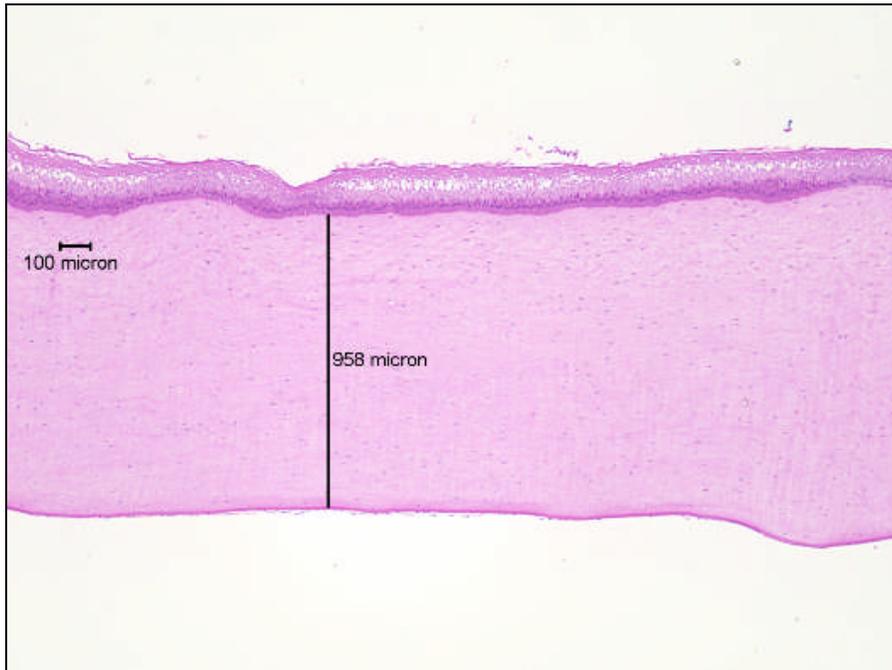
Opacity = 23	Permeability = 0.148	<i>In Vitro</i> Score = 25.2	pH = 12.0
--------------	----------------------	------------------------------	-----------

05AF53, neat, 3-minute exposure, 120-minute post-exposure (10/3/05) - Full thickness (magnification 48x)



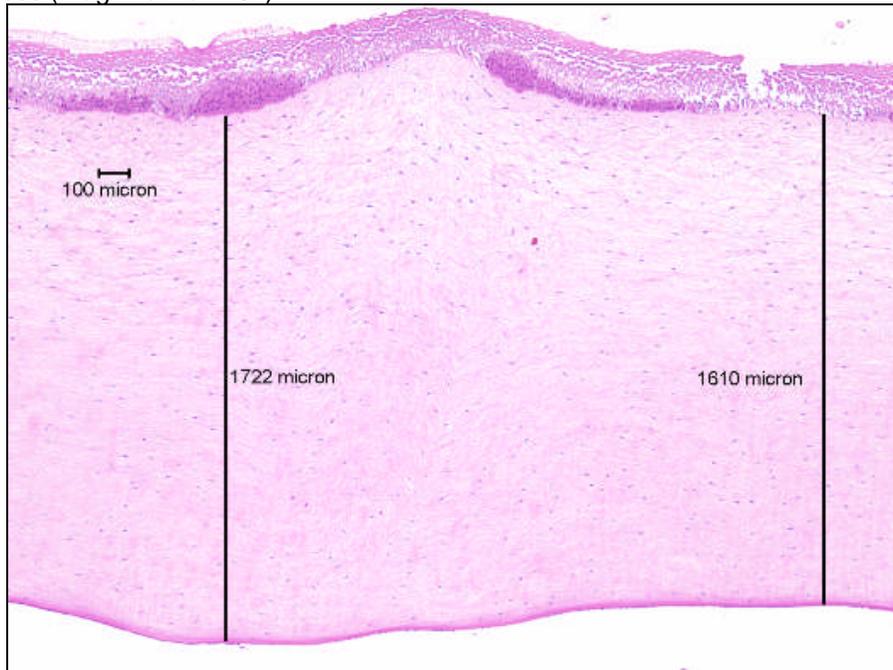
Opacity = 28.7	Permeability = 0.606	<i>In Vitro</i> Score = 37.8	pH = 11.5
----------------	----------------------	------------------------------	-----------

05AD40, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x)



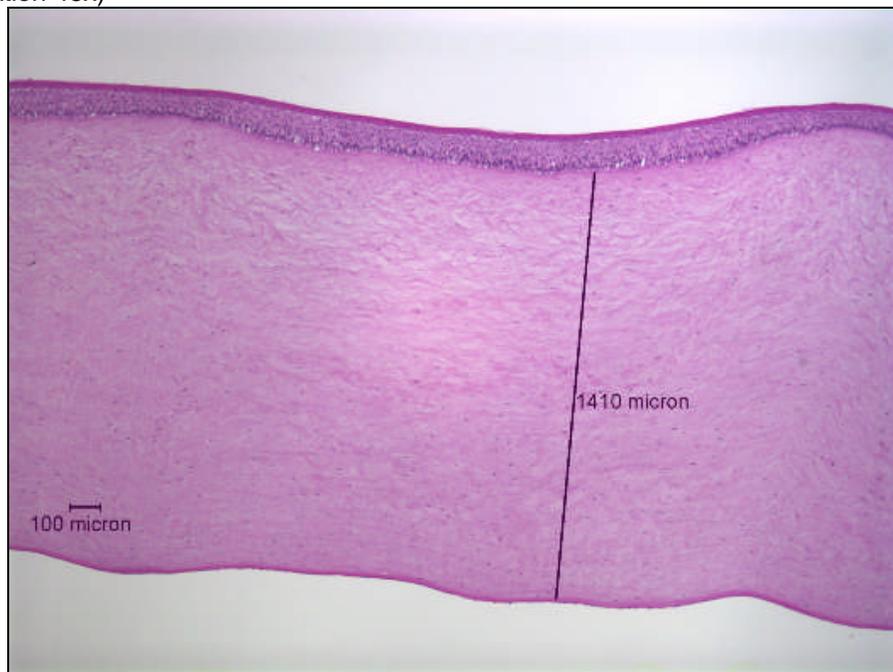
Opacity = 29	Permeability = 1.274	<i>In Vitro</i> Score = 48.1	pH = 12.0
--------------	----------------------	------------------------------	-----------

05AD42, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Full thickness (magnification 48x)



Opacity = 29	Permeability = 1.704	<i>In Vitro</i> Score = 54.6	pH = 12.5
--------------	----------------------	------------------------------	-----------

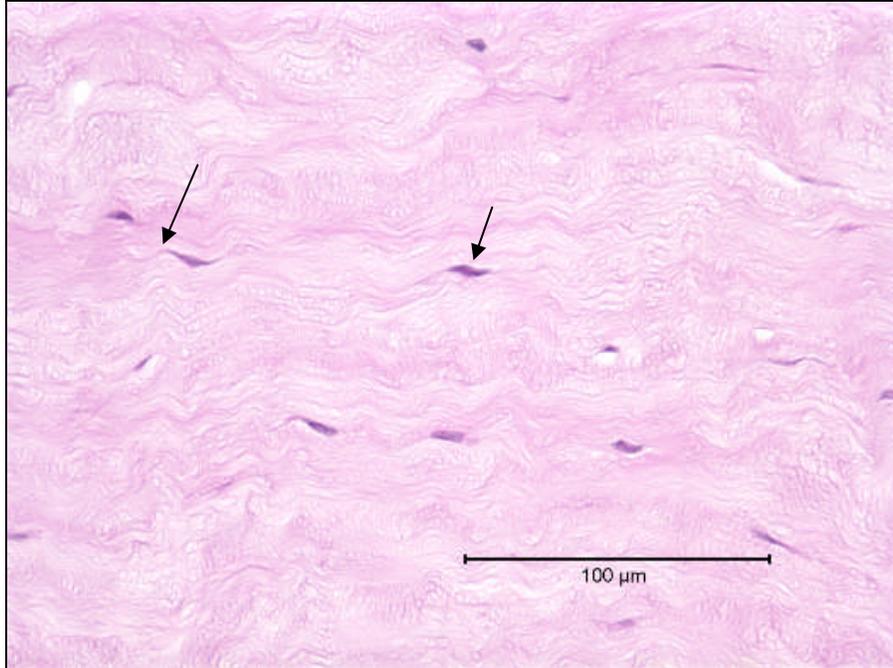
05AF53, neat, 10-minute exposure, 120-minute post-exposure (10/3/05) - Full thickness (magnification 48x)



Opacity = 41.7	Permeability = 1.668	<i>In Vitro</i> Score = 66.7	pH = 11.5
----------------	----------------------	------------------------------	-----------

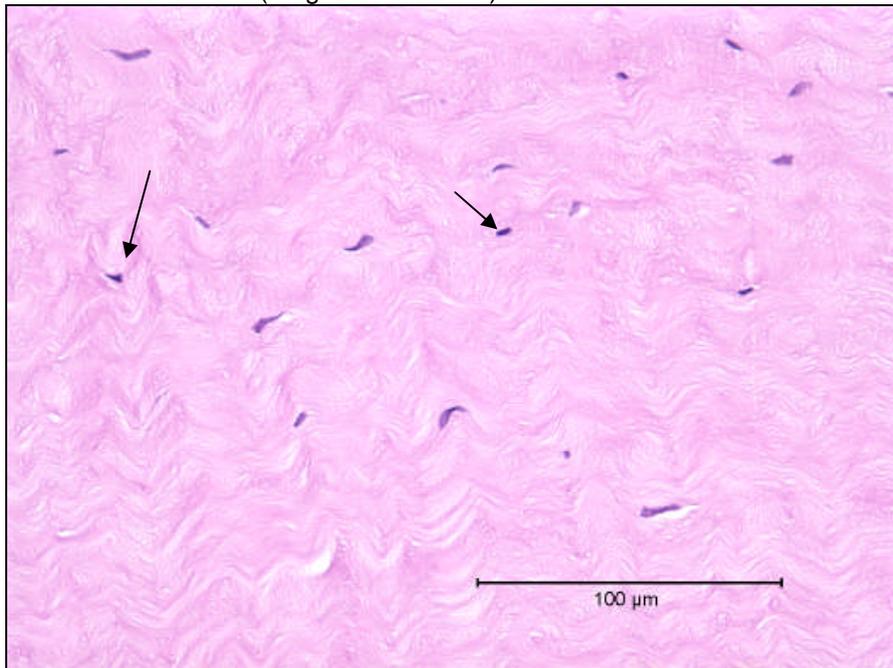
Upper Stroma:

05AE40, neat, 3-minute exposure, 120-minute post-exposure (09/08/05) - Stroma at 20% depth showing moderate collagen matrix vacuolization and a moderate increase in the frequency of keratocytes with some abnormal nuclear morphology and cytoplasmic eosinophilia (magnification 475x)



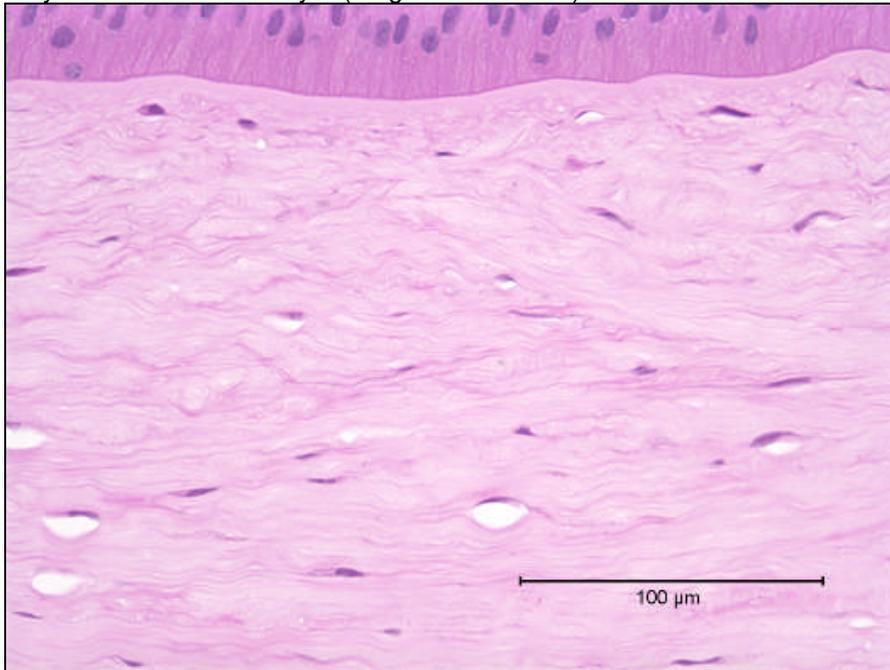
Opacity = 0	Permeability = 0.139	<i>In Vitro</i> Score = 2.1	pH = 12.0
-------------	----------------------	-----------------------------	-----------

05AE40, neat, 3-minute exposure, 120-minute post-exposure (11/02/05) - Stroma at 20% depth showing moderate collagen matrix vacuolization and a moderate increase in keratocytes with abnormal nuclear condensation (magnification 475x)



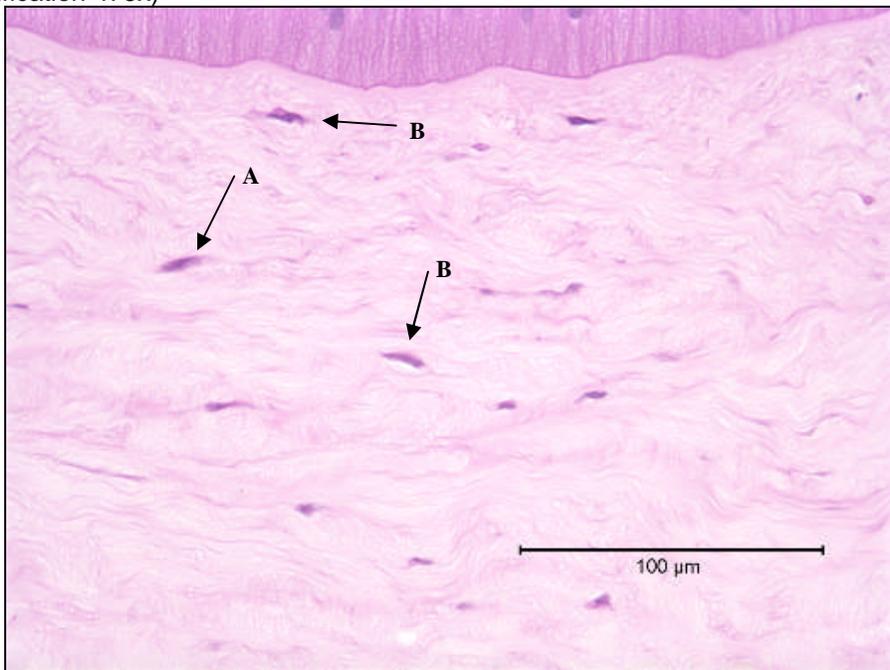
Opacity = 1	Permeability = 0.14	<i>In Vitro</i> Score = 3.1	pH = 12.0
-------------	---------------------	-----------------------------	-----------

05AD40, neat, aerosol exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Stroma directly below Bowman's Layer (magnification 475x)



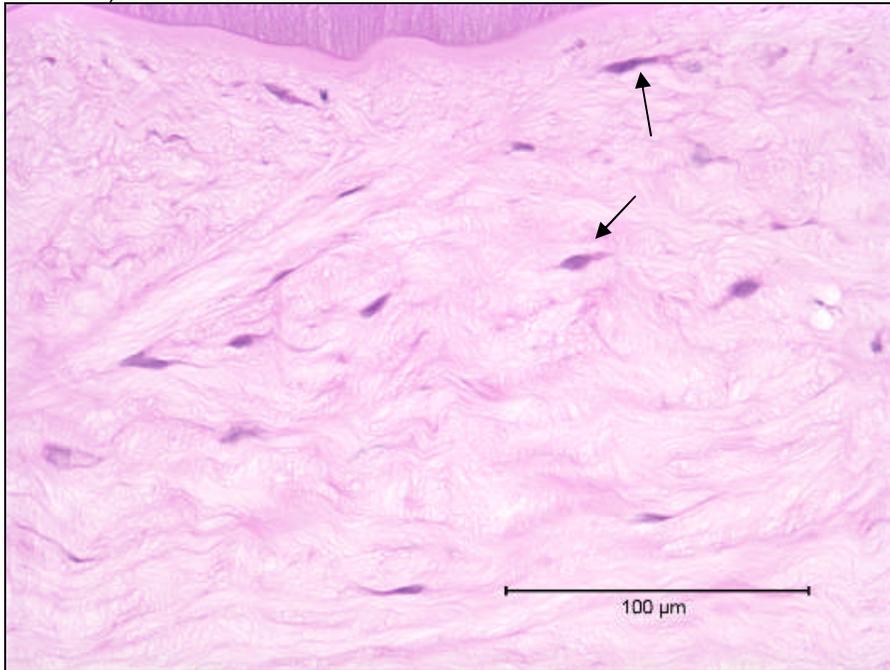
Opacity = 3.3	Permeability = 0.008	<i>In Vitro</i> Score = 3.5	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AD40, neat, aerosol exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Stroma directly below Bowman's Layer showing slight collagen matrix vacuolization and a slight increase in keratocytes with abnormal chromatin condensation (A) and cytoplasmic eosinophilia (B) (magnification 475x)



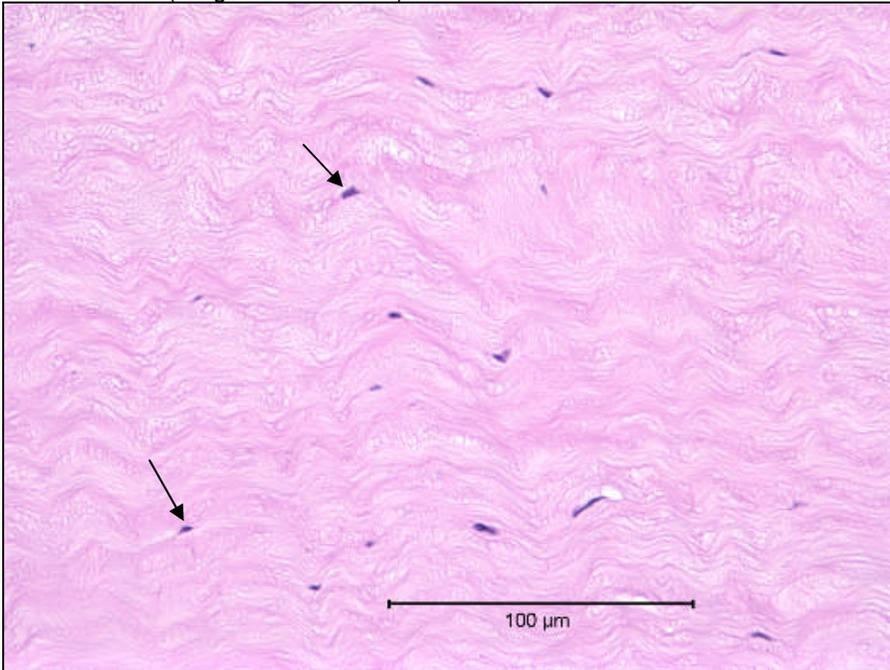
Opacity = 3.7	Permeability = 0.014	<i>In Vitro</i> Score = 3.9	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AD42, neat, installation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Stroma directly below Bowman's Layer showing moderate collagen matrix vacuolization and an increased number of keratocytes with nuclear enlargement and cytoplasmic eosinophilia (magnification 475x)



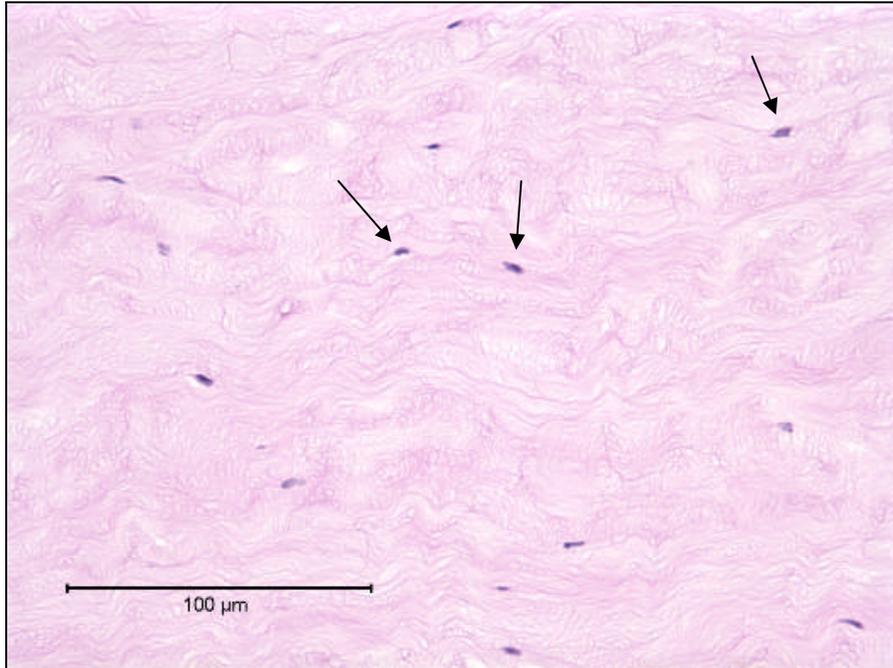
Opacity = 4.3	Permeability = 0.258	<i>In Vitro</i> Score = 8.2	pH = 12.5
---------------	----------------------	-----------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (11/02/05) - Stroma at 20% depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (magnification 475x)



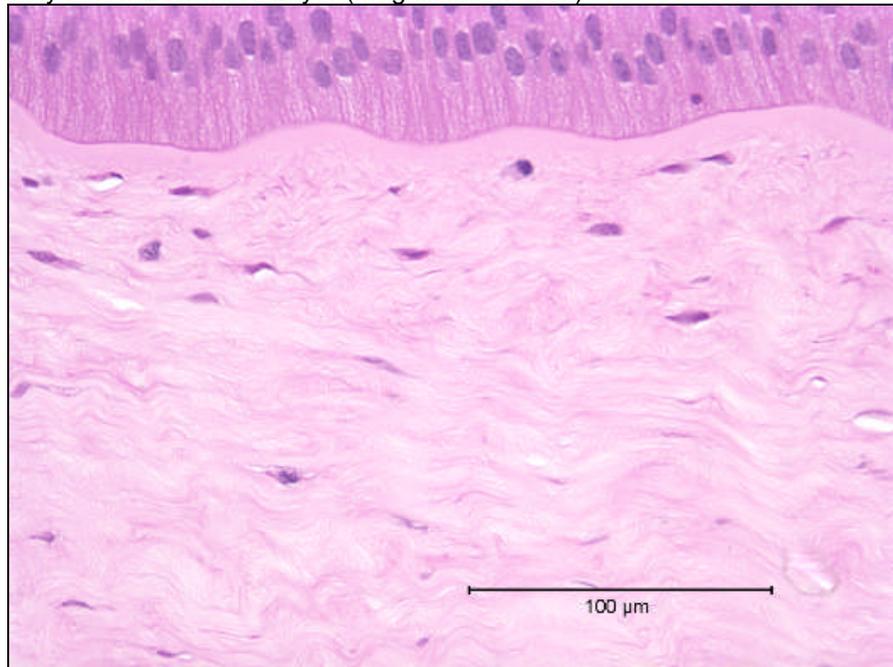
Opacity = 2.7	Permeability = 0.745	<i>In Vitro</i> Score = 13.9	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (09/08/05) - Stroma at 20% depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (magnification 475x)



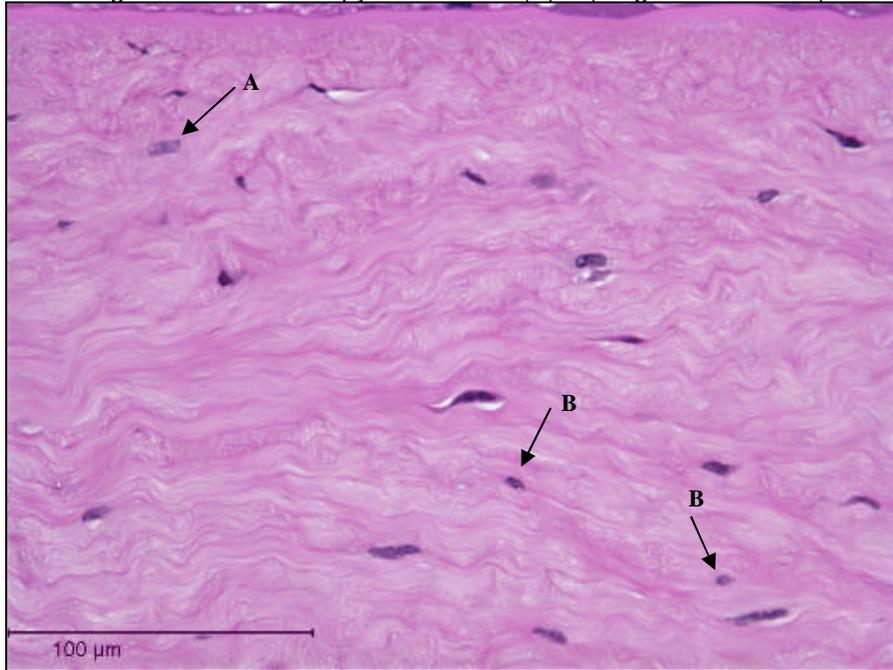
Opacity = 4.3	Permeability = 0.728	<i>In Vitro</i> Score = 15.2	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AD40, neat, instillation exposure, 3-minute exposure, 120-minute post-exposure (07/05/05) - Stroma directly below Bowman's Layer (magnification 475x)



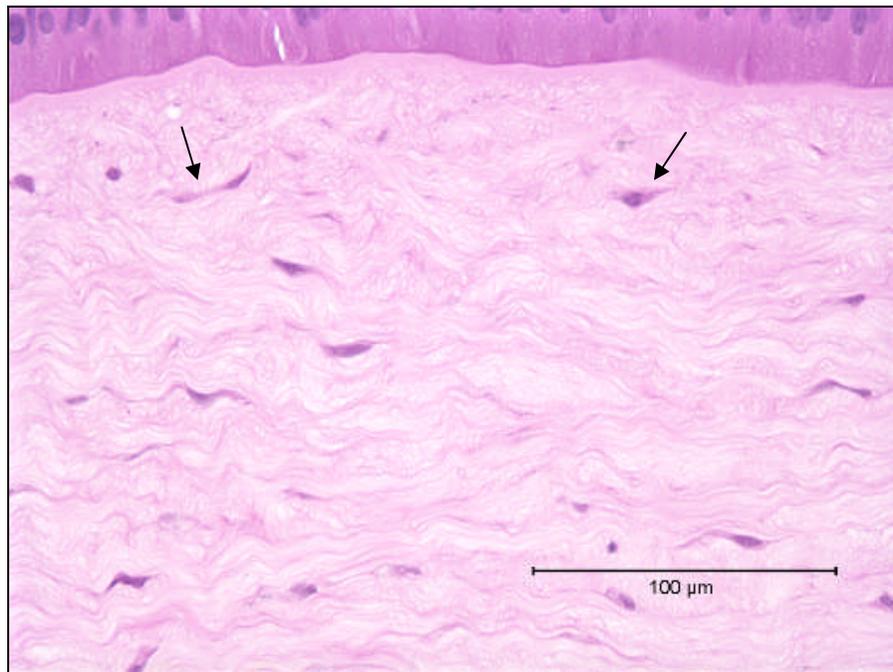
Opacity = 23	Permeability = 0.148	<i>In Vitro</i> Score = 25.2	pH = 12.0
--------------	----------------------	------------------------------	-----------

05AF53, neat, 3-minute exposure, 120-minute post-exposure (10/3/05) -Stroma directly beneath Bowman's layer showing mild collagen matrix vacuolation with severe cellular vacuolation (A). There was also a significant amount of pyknotic nuclei (B). (magnification 475x)



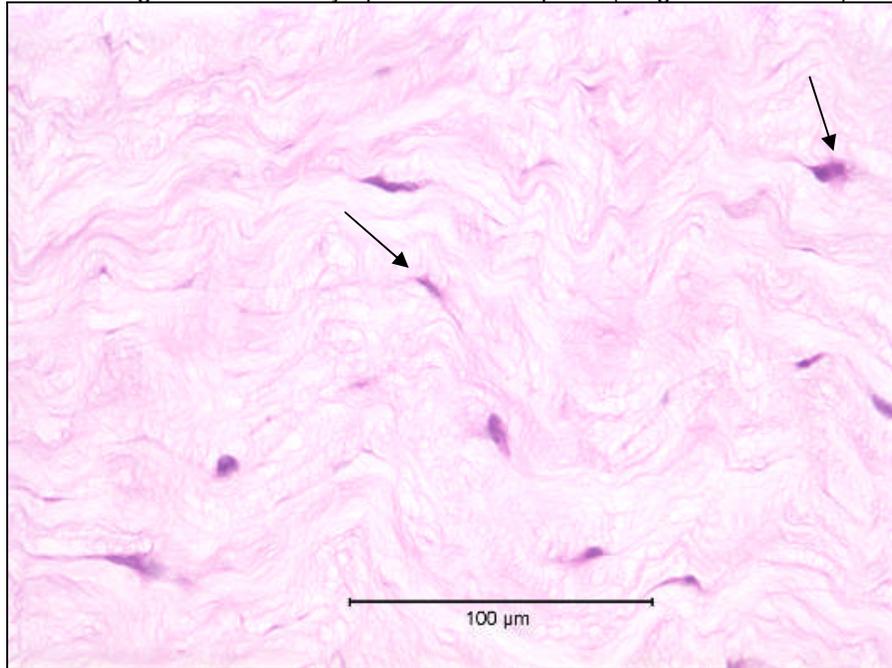
Opacity = 28.7	Permeability = 0.606	<i>In Vitro</i> Score = 37.8	pH = 11.5
----------------	----------------------	------------------------------	-----------

05AD40, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Stroma directly below Bowman's Layer showing slight collagen matrix vacuolization and a slight increase in the number of keratocytes with slight cytoplasmic eosinophilia (magnification 475x)



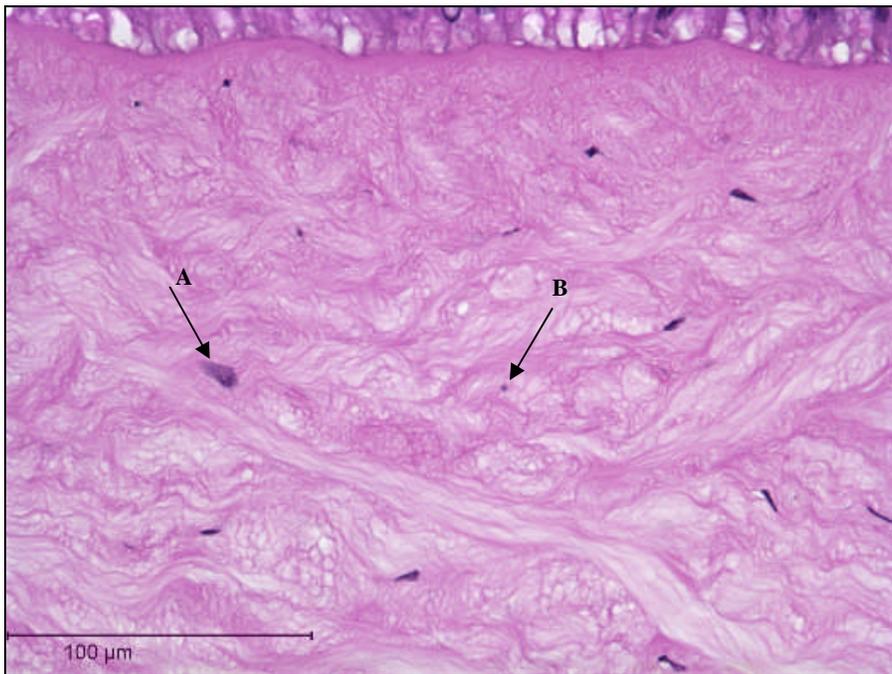
Opacity = 29	Permeability = 1.274	<i>In Vitro</i> Score = 48.1	pH = 12.0
--------------	----------------------	------------------------------	-----------

05AD42, neat, installation exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Stroma at 20% depth showing marked collagen matrix vacuolization and a marked increase in keratocytes with enlarged nuclei and cytoplasmic eosinophilia (magnification 475x)



Opacity = 29	Permeability = 1.704	<i>In Vitro</i> Score = 54.6	pH = 12.5
--------------	----------------------	------------------------------	-----------

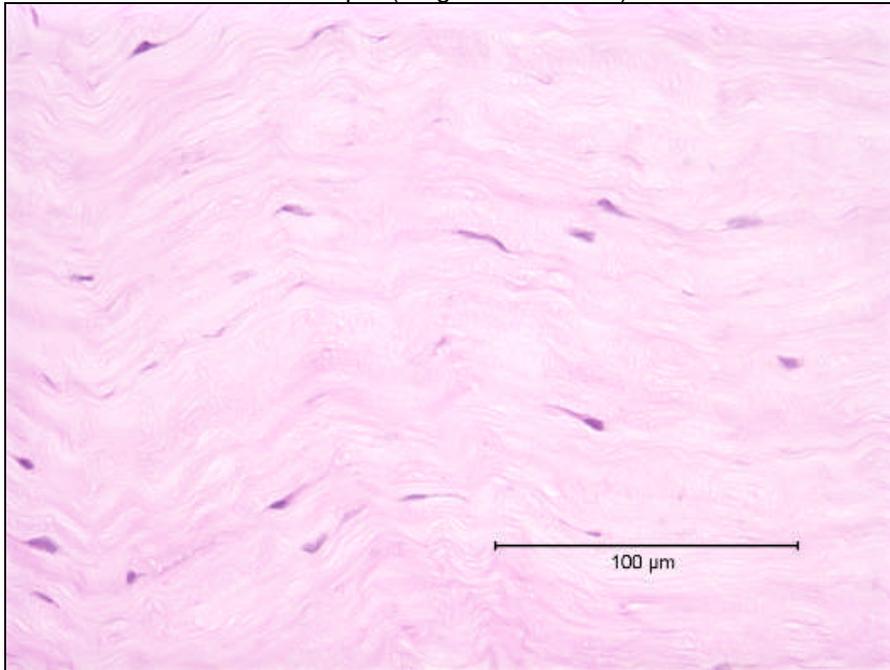
05AF53, neat, 10-minute exposure, 120-minute post-exposure (10/3/05) - Stroma directly beneath Bowman's layer showing severe collagen matrix vacuolization with moderate cellular vacuolation (A). There was also a significant amount of pyknotic nuclei (B). (magnification 475x)



Opacity = 41.7	Permeability = 1.668	<i>In Vitro</i> Score = 66.7	pH = 11.5
----------------	----------------------	------------------------------	-----------

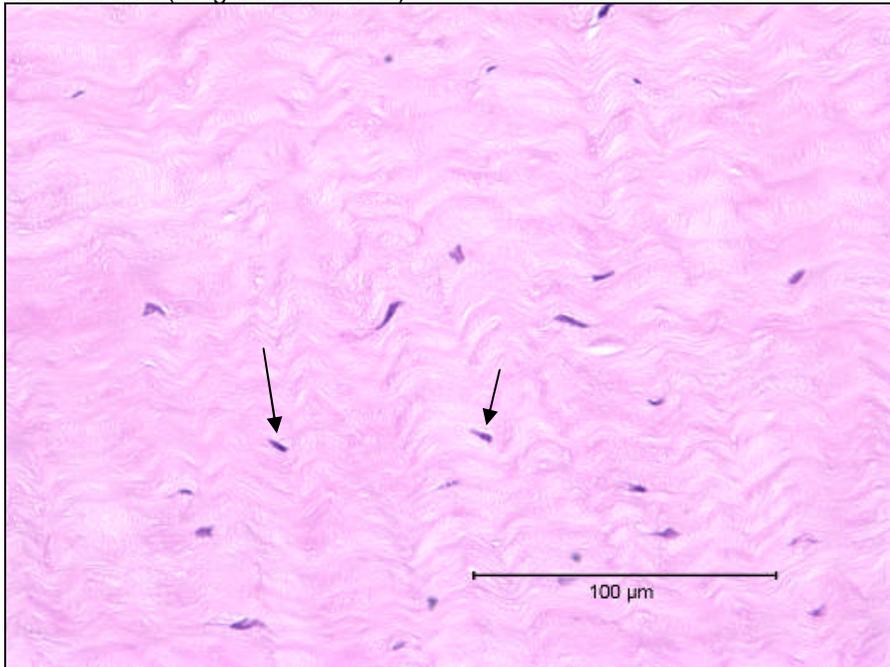
Lower Stroma:

05AD40, neat, aerosol exposure, 10-minute exposure, 120-minute post-exposure (07/05/05) - Essentially normal stroma below mid depth (magnification 475x)



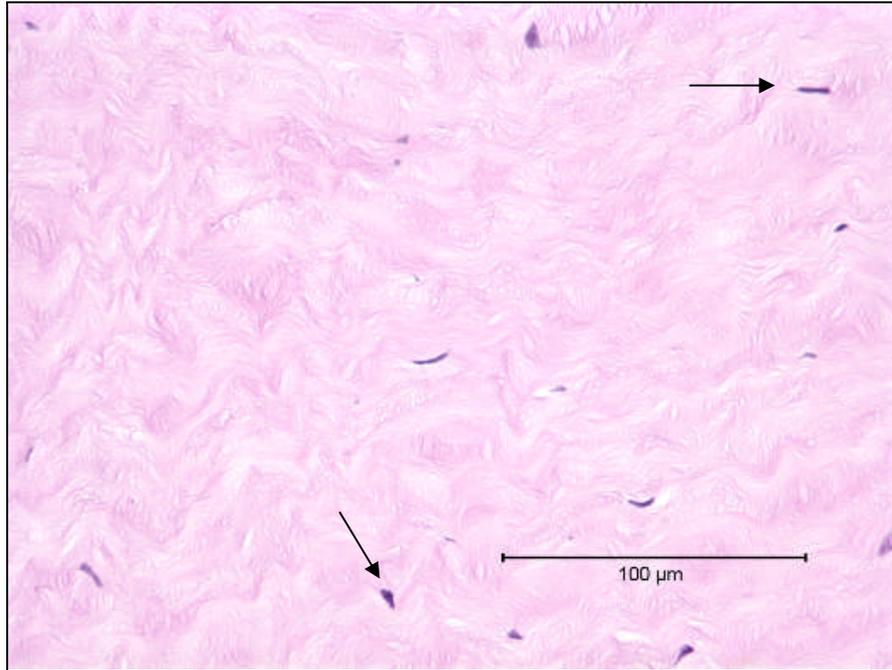
Opacity = 3.7	Permeability = 0.014	<i>In Vitro</i> Score = 3.9	pH = 12.0
---------------	----------------------	-----------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (11/02/05) - Stroma below mid depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (magnification 475x)



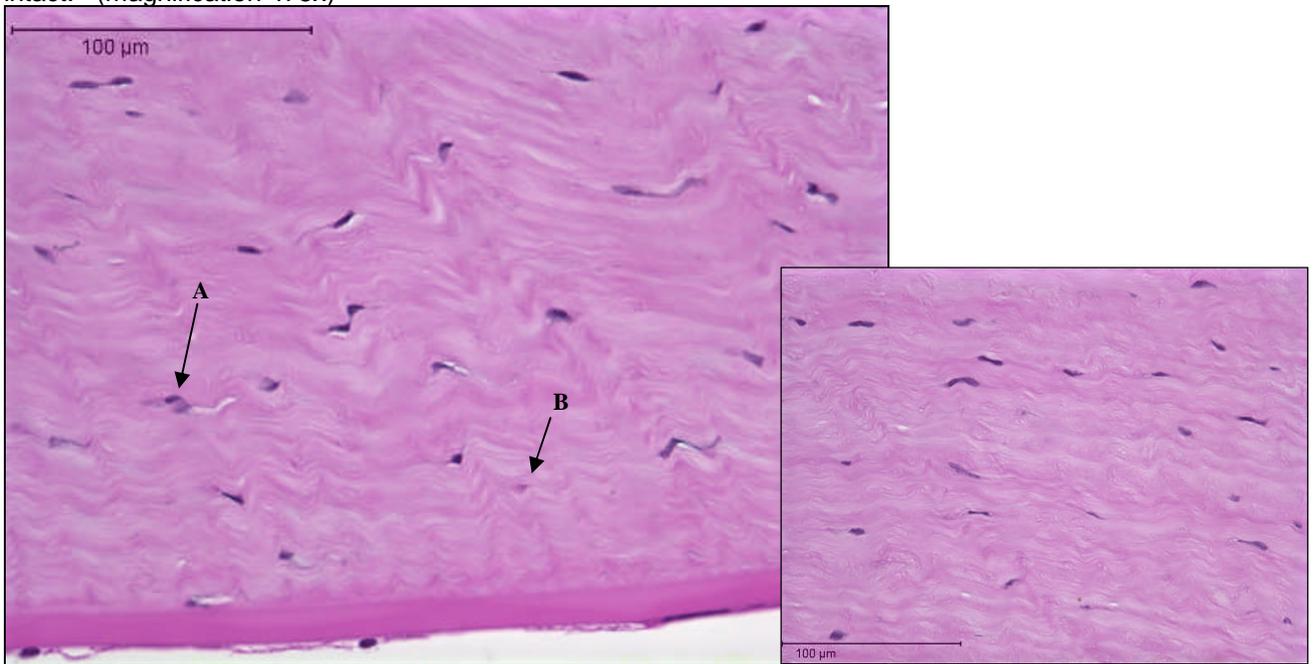
Opacity = 2.7	Permeability = 0.745	<i>In Vitro</i> Score = 13.9	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AE40, neat, 10-minute exposure, 120-minute post-exposure (09/08/05) - Stroma below mid depth showing moderate collagen matrix vacuolization and a marked increase in keratocytes with hyper-condensed nuclei (magnification 475x)



Opacity = 4.3	Permeability = 0.728	<i>In Vitro</i> Score = 15.2	pH = 12.0
---------------	----------------------	------------------------------	-----------

05AF53, neat, 3-minute exposure, 120-minute post-exposure (10/3/05) - Stroma below mid depth there was minimal cellular vacuolation (A) and pyknotic nuclei (B). The collagen matrix was generally intact. The endothelium was generally detached from Descemet's membrane with vacuolation through the cellular structures. (magnification 475x). Inset - Stroma near mid depth showing minimal cellular vacuolation and pyknotic nuclei. The collagen matrix was generally intact. (magnification 475x)



Opacity = 28.7	Permeability = 0.606	<i>In Vitro</i> Score = 37.8	pH = 11.5
----------------	----------------------	------------------------------	-----------

05AF53, neat, 10-minute exposure, 120-minute post-exposure (10/3/05) - Stroma near mid depth showing cellular vacuolation (A) and significant amounts of pyknotic nuclei (B). The collagen matrix had moderate vacuolation. (magnification 475x). Inset - Stroma beneath mid depth showing minimal cellular vacuolation and pyknotic nuclei. The collagen matrix had mild vacuolation. The endothelium was separated from Descemet's membrane. (magnification 475x)

