

**NOVAGENESIS PROCESS PARAMETER REFERENCE GUIDE***Application Note NG01-01*

The NovaGenesis is a benchtop, research and development product line that enables the development of technologies that incorporate supercritical CO<sub>2</sub> processing. The information below serves a reference for researchers that are starting to use the NovaSterilis platform.

**PROCESS PARAMETERS BY APPLICATION**

Application	Pressure	Temperature	Dwell Time	Additive*	Water**
<b>Bone Cleaning</b>	1,500 psi	35°C	2 hours	1 mL 50% H <sub>2</sub> O <sub>2</sub>	-
<b>Bone Sterilization</b>	1,500 psi	35°C	3 hours	1 mL NovaKill	1.25 mL
<b>Soft Tissue Cleaning</b>	1,500 psi	35°C	30 minutes	1 mL 3% H <sub>2</sub> O <sub>2</sub>	-
<b>Soft Tissue Decellularization</b>	2,500 psi	35°C	1 hour	120 mL 70% Ethanol***	-
<b>Soft Tissue Sterilization</b>	1,500 psi	35°C	3 hours	1 mL NovaKill	1.25 mL

\* Additive is placed on a portion of cut NovaPad, which in turn is placed on the holder in the bottom of the NovaGenesis vessel, separate from the stir bar. The NovaPad is 20 cm x 3.6 cm and has a total capacity of 16 mL. A 1 cm x 3.6 cm strip of NovaPad will hold 1 mL of additive.

\*\* Water is added to the NovaGenesis vessel by pipetting the liquid down the inner wall of the vessel.

\*\*\* With the relatively large volume of 70% ethanol, take care to keep samples separated from the 70% ethanol. 70% ethanol can be added directly to the NovaGenesis vessel chamber.

**ADDITIONAL READING**

Additional technical references can be found at <https://www.novasterilis.com/technical-papers/>