



Matrispine®

Assembled Cervical Spacer

Clinical Overview Bio-implant designed with two cortical endplates supporting a cancellous center for ACDF procedures

Applications Anterior Cervical Discectomy and Fusion

Features & Benefits

- **Proven Clinical Performance:** A prospective study found 100% fusion rates after 12 months in 74 ACDF patients.¹
- **Osteoconductive:** Large cancellous matrix facilitates early bone growth.
- **Stability:** Textured surface designed to reduce migration.²
- **Variety:** Multiple footprints in both parallel and lordotic configurations to better match patient anatomy.
- **Sterile:** Sterilized using proprietary and patented Allowash XG® technology. This technology provides a sterility assurance level of 10^{-6} , without compromising the implant's inherent osteoconductive properties.³
- **Ambient Storage:** This implant features Preservon®; a proprietary, glycerol-based preservation technology that allows allograft bio-implants to be stored in a fully-hydrated state at ambient temperature. Preservon eliminates lengthy thawing and rehydrating times, and does not require freezer storage, or compromise biomechanical strength.⁴
- Uniform dimensions.

International use only. Not available for distribution in the US or Canada.



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Assembled Cervical Spacer - 7° Lordosis

*Ambient Storage/5 Year Shelf Life

Anterior Height H(A)	Posterior Height H(P)	Preservon
5 mm	3.59 mm	ACS5LOR
6 mm	4.59 mm	ACS6LOR
7 mm	5.59 mm	ACS7LOR
8 mm	6.59 mm	ACS8LOR
9 mm	7.59 mm	ACS9LOR
10 mm	8.59 mm	ACS10LOR
11 mm	9.59 mm	ACS11LOR
12 mm	10.59 mm	ACS12LOR

Assembled Cervical Spacer - Parallel

*Ambient Storage/5 Year Shelf Life

Anterior Height H(A)	Posterior Height H(P)	Preservon
5 mm	5 mm	ACS5PAR
6 mm	6 mm	ACS6PAR
7 mm	7 mm	ACS7PAR
8 mm	8 mm	ACS8PAR
9 mm	9 mm	ACS9PAR
10 mm	10 mm	ACS10PAR
11 mm	11 mm	ACS11PAR
12 mm	12 mm	ACS12PAR

*While ambient room temperature has not been defined by regulatory bodies, LifeNet Health would recommend storage at 2°C to 37°C with excursions of less than 24 hours up to 40°C. If an excursion outside this range occurs, please contact LifeNet Health.

Instructions for use available at [LifeNetHealth.org/IFU](https://www.lifenethealth.org/IFU)

References

1. Abla, Adnan, et al. (2005) Allograft Composite Cortical and Cancellous Bone Graft for Anterior Cervical Fusion. Contemporary Neurosurgery. 27(8).
2. Data on file LifeNet Health. ES-17-084.
3. Balsly CR, Cotter AT, Williams LA, Gaskins BD, Moore MA, Wolfinbarger L Jr. Effect of low dose and moderate dose gamma irradiation on the mechanical properties of bone and soft tissue allografts. Cell Tissue Bank. 2008;9(4):289-298. doi:10.1007/s10561-008-9069-0.
4. Samsell, B., Softic, D., Qin, X. et al. Preservation of allograft bone using a glycerol solution: a compilation of original preclinical research. Biomater Res 23, 5 (2019). <https://doi.org/10.1186/s40824-019-0154-1>.

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