

Quality certificate

Biological indicators DH/HL

Biological indicator in compliance with ISO 11138-4 for dry heat sterilization processes.

Organism:	Bacillus subtilis spores DSM 13019
Mean population (cfu): determined by using agar surface method (TSA-Oxoid)	$2,9 \times 10^6$
Carrier material:	filter paper
Package:	medical paper
Lot:	1010825
Expiration date:	09. 2027
D _{150 °C} -value:	2,0 min
z-value:	58,6 °C
Survival time:	D-value x (log cfu – 2)
Kill time:	D-value x (log cfu + 4)

All data are determined at time of manufacturing.

Resistance data all determined according to ISO 11138 and are only reproducible when exposed and cultured under the exact conditions used to obtain results report here. Results may vary under different test conditions.

Storage:

at + 18 °C to + 25 °C and rel. humidity from 35 % to 70 %

Protect from light and sterilants.

Do not use after expiration date. Sterilize all cultures before disposal.

Date: 19.09.2025

Release: P. Barone

 **MesaGermany**

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19.09.2025

Date

Stamp / Signature