Sterilization and Purity Certificate – Ecostep *bioproof*™

> Socorex[®] certifies that Ecostep *bioproof* TM syringes, intended for use with the StepperTM 411 repeater pipette are sterilized and free of detectable human DNA, DNase, RNase and Pyrogen (endotoxins). Quality controls performed on each lot by independent laboratories according to procedures below.

Sterility SAL (sterility assurance level): 10-6

Sterilization ref: CSSR S.A. SOP ref 7.5.1-13, page 1

Method:

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100 **II** IS **II I** Gas mixture 90% EtO, 10% CO₂, initial vacuum 50 mbar, temperature 50°C, rel. humidity 55%. Theoretical calculated gas concentration 772 mg EtO / L, exposure time 4h, 5 rinsing steps.

Sterility test ref: CSSR S.A. SOP 7 5 1-30, ISO 11138-1 and -2

Method:

Minimum 22 self-contained biological indicators Bacillus Atropheus (Subtilis var. niger), ATCC No 9372 at 106 concentration, 2 days incubation at 37°C

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Socorex[®]

Validation: No growth detected

	ribonucleic Acid (DNA) < 2 p			
Test ref: Method:	Scitec Research S.A., SOP ref. SAM5003 v1, 2014-01 Amplification by PCR of "Alu" genomic area in human DNA, Migration of PCR product on agarose gel. Test performed on Ecostep TM syringes rinsed with DNA-free water. 1) Syringe from tested lot 2) Syringe added with 1 pg of Human DNA, 3) Negative control 4) Positive control			
Validation:				
Deoxyribonuc	lease (DNase) < 10 ⁻⁷ Kunitz U	Inits		
Test ref:	Scitec Research S.A., SOP r	ref. SAM5001 v1, 2014-01		
Method:	Incubation on agarose gel of 1) Syringe from tested lot 3) Negative control	DNA molecular scale. Test perfe 2) Syringe added with a 10 4) Positive control	ormed on Ecostep™ syringes. ^{,7} K Unit of DNAse	
Validation:	No degradation on agarose (in samples 2) and 4)	gel of the DNA molecular scale ir	n samples 1) and 3), degradation	
Ribonuclease	(RNase) < 10 ⁻⁹ Kunitz Units			
Test ref:	Scitec Research S.A., SOP r	ef SAM5002 v1, 2014-01		
Method:	Incubation on agarose gel of RNA molecular scale. Test performed on Ecostep [™] syringes. 1) Syringes from tested lot 2) Syringes added with a 10 ⁻⁹ K Unit of RNAse 3) Negative control 4) Positive control			
Validation:	No degradation on agarose on in samples 2) and 4)	gel of RNA molecular scale in sa	mples 1) and 3), degradation	
Pyrogen (end	otoxins) < 0.005 IU or EU/mL,	< 0.5 IU or EU/ item tested		
'est ref:	LAL chromogenic method, European Pharmacopeia 8th edition (2014), chapter 2.6.14, and United States Pharmacopeia 37 NF 32 (2014), chapter 85			
Method:	Preparation of a standard curve from 5 IU (or EU/mL) to 5 10 ⁻³ IU (or EU/mL). Bacterial endotoxin rates determined using spectrophotometric measures at 405 nm. Test performed on Ecostep [™] syringes rinsed with Pyrogen-free water. 1) Syringes from tested lot 2) Syringes added with 0.5 IU (or EU/mL) of endotoxin 3) Negative control			
Validation	No detection in samples 1) a	nd 3), detection in sample 2)		
Model	Cat. No.	Lot No.	Expiry 🕈	



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