## ISO 22117:2019 (E)

Microbiology of the food chain — Specific requirements and guidance for proficiency testing by interlaboratory comparison

## **Contents**

	Fore	eword		
	Intro	duction		
1	Sco	Scope		
2	Norr	native references		
3	Tern	erms and definitions		
4	Sche	eme design and purpose		
	4.1 4.2 4.3 4.4 4.5 4.6	General Scheme objectives Laboratory requirements for schemes Choice of test matrices Information on test methods used by the PT provider Statistical design		
5	Tech	Technical requirements and guidance for sample design and content		
	5.1 5.2 5.3 5.4	Sources, characterization and traceability of organisms Target organisms level Non-target organisms and interferences Matrix selection and effects		
6 Sample verification by the provider		ple verification by the provider		
	6.1 6.2 6.3 6.4 6.5 6.5.1 6.5.2 6.5.3	General Sample homogeneity testing — General considerations Homogeneity testing for quantitative (enumeration) samples Homogeneity testing for qualitative methods Stability testing by the provider General Stability during storage conditions Stability during transport conditions		
7	Sample handling			
	7.1 7.2	General Instructions to participants		
8	Performance evaluations			
	8.1 8.2 8.3 8.3.1 8.3.2 8.3.3 8.3.4 8.3.5 8.3.6 8.3.6.1	General Preliminary considerations Assessment of quantitative methods General Distribution of data Determining the assigned value Uncertainty of the assigned value Methods of assessing performance Using z-scores General		
	8.3.6.2 8.3.6.3 8.3.6.4	The target standard deviation for z-score calculations Multiple results in z-score systems Using scaled median absolute deviation (MADe) from the median values Other methods of performance evaluation		

	8.3.7	7.1	General		
	8.3.7.2		Using the 0,5 log10 rule		
	8.3.7		Using percentiles		
	8.3.7.4		Poisson 95 % confidence interval (CI)		
	8.3.7.5		Special considerations for most probable number methods		
	8.3.8		Long-term performance assessment		
	8.3.8.1		General		
8.3.8.2			Low count assessments		
	8.3.8.3		High count assessments		
	8.4		Assessment of qualitative methods		
8.4.1			General		
	8.4.2		Performance of individual laboratories		
	8.4.3	3	Scheme comparisons of laboratory performance		
Annex	Α.	(inforr	native) Example of details to be included in a PT scheme plan		
Annex B		(informative) Preparation of fungal spore suspensions			
	B.1		General		
	B.2 B.2.1		Procedure		
			General		
B.2.2 B.2.3		_	Preparing spore suspensions from agar plates		
			Preparing spore suspensions from agar slopes		
B.2.4		-	Storage		
	B.2.5		Quality control checks		
Annex C (infor		(inforr	native) Methods of testing for variation between portions of test materials		
	C.1		T1 - T2 test		
	C.2		Test for sufficient homogeneity		
Annex	D	(inforr	native) Example of a safety data sheet		
Annex E		(informative) A practical method to assess long-term performance of participants in PT schemes using enumeration methods			
	E.1 E.2 E.3 E.4		Preparing data for analysis Dealing with censored data Plotting results Allocation of scores		
			, out or out or		

Page count: 33