

THON CONTIN		X	Growing Area		
Proposal for Task Force Consideration at the ISSC 2015 Biennial Meeting		2 Growing Area			
			☐ Harvesting/Handling/Distribution		
			Administrative		
Submitter	Executive Board				
Affiliation	Interstate Shellfish Sanitation Conference (ISSC)				
Address Line 1	209 Dawson Road				
Address Line 2	Suite 1				
City, State, Zip	Columbia, SC 29223-1740				
Phone	803-788-7559				
Fax	803-788-7576				
Email	issc@issc.org				
Proposal Subject	MPN-Real-Time PCR for Pathogenic <i>V.p.</i>				
Specific NSSP	Section IV. Guidance,				
Guide Reference	Chapter II. Growing Areas				
Guide Reference	.11 Approved NSSP Laboratory Tests				
Requested Action	This method was developed by Jessica Jones (FDA Gulf Coast Seafood Laboratory)				
	and is being submitted by the ISSC Executive Board. The Executive Board granted				
	interim approval to this method on March 13, 2015. The Executive Board is				
	submitting this proposal to comply with Article V. Section 1. of the ISSC				
	Constitution, Bylaws, and Procedures.				
Text of Proposal	Submitted by method developer Jessica Jones (FDA Gulf Coast Seafood Laboratory)				
	5 A 1 Math of Garage Commence				
	5. Approved Methods for Vibrio Enumeration Application: Application:				
	Vibrio Indi	cator Type:	PHP Sample Type: Shucked	Reopening	
	EIA ¹ Vibrio vulnificus	s (V.v.)	X		
	MPN ² Vibrio vulnificus		X		
	SYBR Green 1 Vibrio vulnificus QPCR-MPN ⁵	s (V.v.)	X		
	MPN ³ Vibrio parahaen		X		
	PCR ⁴ Vibrio parahaen		X		
	$\frac{\text{MPN-Real}}{\text{Times of } PCD^6}$		<u>X</u>	<u>X</u>	
	Time PCR ⁶ parahaemolytica	<u>ıs (V.p.)</u>			
	Footnotes:				
	¹ EIA procedure of Tamplin, et al, as described in Chapter 9 of the FDA				
	Bacteriological Analytical Manual, 7th Edition, 1992.				
	² MPN method in Chapter 9 of the FDA Bacteriological Analytical Manual, 7th				
	Edition, May 2004 revision, followed by confirmation using biochemical analyses				
	or by the DNA -alkaline phosphatase labeled gene probe (vvhA).				
	³ MPN format with confirmation by biochemical analysis, gene probe methodology				
	as listed in Chapter 9 of the FDA Bacteriological Analytical Manual, 7th Edition,				
	May 2004 revision, or a method that a State can demonstrate is equivalent.				
	⁴ PCR methods as they are listed in Chapter 9 of the FDA Bacteriological Analytical				
	Manual, 7th Edition, May 2004 revision, or a method that a State can				
	demonstrate is equivalent.				
	⁵ Vibrio vulnificus, ISSC Summa	ry of Actions 20	009. Proposal 09-113,	Page 123.	
	⁶ MPN-real time PCR method for				



	as described in Kinsey et al., 2015.		
Public Health	The current NSSP method for enumeration of tdh+ Vp requires a minimum of four		
Significance	days from receipt of sample to results reporting. Currently, there is no NSSP-approved method for enumeration of $trh+Vp$. At the 2013 conference, proposal 13-202 was adopted which requires testing for the presence of tdh and trh prior to reopening of growing areas closed as a result of Vp illnesses [Chapter II @.01.F(5)]. This proposed MPN-real-time PCR method provides results in as little as 24h from receipt of sample. Availability of this more rapid method will facilitate reopening decision making.		
Cost Information	This method costs ~\$120 per sample for laboratory consumables, supplies, and reagents. Most equipment needed for testing is standard microbiology equipment, but purchase of a heat block (~\$400) and/or centrifuge (~\$2,500) may be necessary. Purchase of a real-time PCR instrument will be required (\$30,000-\$45,000). Additional costs for a laboratory would vary based on their operational overhead and labor.		