

表1、本次實驗使用的引子對

目標菌株	引子對	Sequences (5'→ 3')	產物 (bp)
	vm-F ^a	CAG-GTT-TGY-TGC-ACG-GCG-AAGA	
<i>V. cholerae</i>	vc-Rmm ^b	AGC-AGC-TTA-TGA-CCA-ATA-CGCC	375
<i>V. parahaemolyticus</i>	vp-MmR ^b	TGC-GAA-GAA-AGG-CTC-ATC-AGAG	96
<i>V. vulnificus</i>	vv-Rmm ^b	GTA-CGA-AAT-TCT-GAC-CGA-TCAA	412
<i>V. alginolyticus</i>	v.al2-MmR ^b	GAT-CGA-AGT-RCC-RAC-ACT-MGGA	144
<i>Vibrio</i> spp.	v.16S- 700F	CGG-TGA-AAT-GCG-TAG-AGAT	663
	v.16S-1325R	TTA-CTA-GCG-ATT-CCG –AGT-TC	
	UtoxF ^c	GAS-TTT-GTT-TGG-CGY-GAR-CAA-GGTT	
<i>V. parahaemolyticus</i>	vptoxR ^d	GGT-TCA-ACG-ATT-GCG-TCA-GAAG	297
<i>V. cholerae</i>	vctoxR ^d	GGT-TAG-CAA-CGA-TGC-GTA-AG	640
<i>V. vulnificus</i>	vvtoxR ^d	AAC-GGA-ACT-TAG-ACT-CCG-AC	435

^a Universal forward primer for 4 *Vibrio* species. [Nhung *et al.*, 2007]

^b Specific primer [Tarr *et al.*, 2007]

^c Multiplex Universal forward primer for 3 *Vibrio* species.

^d Multiplex Specific primer [Bauer and Rorvik, 2007]

表2、各種不同採樣來源之菌株分離件數及百分比

菌株 \ 鑑定	PCR (n = 284)	
	樣品	分離百分比 (%)
<i>Vibrio parahaemolyticus</i>	51	17.96
<i>Vibrio vulnificus</i>	16	5.63
<i>Vibrio alginolyticus</i>	12	4.22
<i>Vibrio cholerae</i>	8	2.82
Non- target <i>Vibrio</i> spp.	33	11.62
Total <i>Vibrio</i> spp.	120	42.25

表3、各種不同採樣來源分離百分比（採樣件數433件）

菌株	來源				
	池水(%)	底泥(%)	魚隻體表(%)	病例(%)	合計(%)
<i>V. parahaemolyticus</i>	15 (3.5)	21 (4.8)	13 (3.0)	2 (0.5)	51 ^a (11.8)
<i>V. vulnificus</i>	3 (0.7)	8 (1.8)	4 (0.9)	1 (0.2)	16 ^a (3.7)
<i>V. alginolyticus</i>	2 (0.5)	5 (1.2)	4 (0.9)	1 (0.2)	12 ^a (2.8)
<i>V. cholerae</i>	1 (0.2)	5 (1.2)	2 (0.5)	0 (0.0)	8 ^a (1.8)
Non- target <i>Vibrio</i> spp.	10 (2.3)	13 (3.0)	6 (1.4)	4 (0.9)	33 ^a (7.6)
Total <i>Vibrio</i> spp.	31 (7.2)	52 (12.0)	29 (6.7)	8 (1.8)	120 ^a (27.7)

^a 經PCR分析結果

表4、藥物敏感性試驗結果（* MIC:最小抑菌濃度）

抗菌劑種類	濃度 (μg mL ⁻¹)			抗藥性百分比 (%)
	MIC*	MIC ₅₀	MIC ₉₀	
Sulfamonomethoxine	2 - >1280	>1280	>1280	85 (97.7)
Sulfadimethoxine	>1280	>1280	>1280	87 (100)
Doxycycline	0.125 - >128	4	128	14 (16.1)
Oxytetracycline	0.125 - >128	8	≥256	18 (20.7)
Flumequine	0.125 - >128	0.5	32	21 (24.1)
Florfenicol	0.125 - >128	1	16	19 (21.8)
Oxolinic acid	0.125 - >128	0.5	≥256	24 (27.6)
Norfloxacin	0.125 - >128	0.03	64	6 (6.9)
Ofloxacin	0.125 - >128	0.03	2	8 (9.2)