

Laboratory	The Marine Products Export Development Authority, Quality Control Laboratory, 5th Floor, MPEDA House, Panampilly Nagar, Kochi, Kerala		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.10.2016
Certificate Number	T-1174	Valid Until	30.10.2018
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	MARINE /AQUA CULTURE FOOD PRODUCTS			
1.	Crustaceans (shrimp) and Fish	ANTIBIOTICS: Nitrofurantoin Metabolites		
		AOZ	DOC. SOP/NF/0 30 JUN 2016 (Rev. 00)	0.426 µg/kg to 100 µg/kg (LOD-0.333 µg/kg)
		AMOZ	DOC. SOP/NF/0 30 JUN 2016 (Rev. 00)	0.243 µg/kg to 100 µg/kg (LOD-0.186 µg/kg)
		AHD	DOC. SOP/NF/0 30 JUN 2016 (Rev. 00)	0.300 µg/kg to 100 µg/kg (LOD- 0.240 µg/kg)
		SEM	DOC. SOP/NF/0 30 JUN 2016 (Rev. 00)	0.566 µg/kg to 100 µg/kg (LOD-0.443 µg/kg)
		Chloramphenicol	DOC:SOP/CAP/01 03 FEB 2014 (Rev. 00)	0.09 µg/kg to 100 µg/kg (LOD-0.06 µg/kg)
		Sulphadiazine	DOC:SOP/SDZ/01 30 AUG 2013 (Rev. 00)	50 µg/kg to 1000 µg/kg (LOD-50 µg/kg)
		Oxolinic acid	DOC:SOP/OAL/00 10 JUN 2008 (Rev. 00)	50 µg/kg to 1000 µg/kg (LOD-50 µg/kg)
		Nalidixic acid	DOC:SOP/OA NA FL/00 28 MAR 2012 (Rev. 00)	20 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		Dyes		
		Malachite Green	DOC:SOP/MG/00 26 FEB 2016 (Rev. 00)	0.42 µg/kg to 100 µg/kg (LOD-0.33 µg/kg)

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	Crustaceans (shrimp) and Fish	Leucomalachite -Green	DOC:SOP/MG/00 26 FEB 2016 (Rev. 00)	0.28 µg/kg to 100 µg/kg (LOD-0.22 µg/kg)
		Mycotoxins		
		Aflatoxin B1	DOC:SOP/AFLA/00 08 JUL 2016 (Rev. 00)	0.5 µg/kg to 100 µg/kg (LOD-0.25 µg/kg)
		Aflatoxin B2	DOC:SOP/AFLA/00 08 JUL 2016 (Rev. 00)	0.5 µg/kg to 100 µg/kg (LOD-0.25 µg/kg)
		Tetracyclines		
		Tetracycline	DOC/SOP/TCs & EPIMERS/00 08 JUL 2016 (Rev. 00)	25 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		4-Epitetracycline	DOC/SOP/TCs & EPIMERS/00 08 JUL 2016 (Rev. 00)	25 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		Oxytetracycline	DOC/SOP/TCs & EPIMERS/00 08 JUL 2016 (Rev. 00)	25 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		4-Epi-oxytetracycline	DOC/SOP/TCs & EPIMERS/00 08 JUL 2016 (Rev. 00)	25 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		Chlortetracycline	DOC/SOP/TCs & EPIMERS/00 08 JUL 2016 (Rev. 00)	25 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		4-Epi-chlortetracycline	DOC/SOP/TCs & EPIMERS/00 08 JUL 2016 (Rev. 00)	25 µg/kg to 1000 µg/kg (LOD-10 µg/kg)

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	Crustaceans (shrimp) and Fish	Nitroimidazoles		
		Ronidazole	DOC: SOP/NI/00 29 JUL 2016 (Rev. 00)	0.50 µg/kg to 100 µg/kg (LOD- 0.39 µg/kg)
		Dimetridazole	DOC: SOP/NI/00 29 JUL 2016 (Rev. 00)	0.50 µg/kg to 100 µg/kg (LOD-0.39 µg/kg)
		Metronidazole	DOC: SOP/NI/00 29 JUL 2016 (Rev. 00)	0.76 µg/kg to 100 µg/kg (LOD-0.59 µg/kg)
		HMMNI	DOC: SOP/NI/00 29 JUL 2016 (Rev. 00)	0.54 µg/kg to 100 µg/kg (LOD-0.42 µg/kg)
		Ipronidazole-OH	DOC: SOP/NI/00 29 JUL 2016 (Rev. 00)	0.71 µg/kg to 100 µg/kg (LOD- 0.56 µg/kg)
		Anthelmintics		
		Ivermectin	DOC/SOP/IVR/00 06 AUG 2014(Rev. 00)	20 µg/kg to 1000 µg/kg (LOD-10 µg/kg)
		Poly Chlorinated Bi-phenyl's (PCBs)		
		2,4,4' - Trichlorobiphenyl (PCB 28)	DOC: SOP/PCB/01 12 JUL 2016 (Rev. 00)	5 µg/kg to 1000 µg/ kg (LOD-3 µg/kg)
		2,2',5,5' - Tetrachlorobiphenyl (PCB 52)	DOC: SOP/PCB/01 12 JUL 2016 (Rev. 00)	5 µg/kg to 1000 µg/ kg (LOD-3 µg/kg)
		2,2',4,5,5' - Pentachlorobiphenyl (PCB 101)	DOC: SOP/PCB/01 12 JUL 2016 (Rev. 00)	5 µg/kg to 1000 µg/ kg (LOD-3 µg/kg)

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	Crustaceans (shrimp) and Fish	2,2',3,4,4',5' - Hexachlorobiphenyl (PCB 138)	DOC: SOP/PCB/01 12 JUL 2016 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-3 µg/kg)
		2,2',4,4',5,5' - Hexachlorobiphenyl (PCB 153)	DOC: SOP/PCB/01 12 JUL 2016 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-3 µg/kg)
		2,2',3,4,4',5,5' - Heptachlorobiphenyl (PCB 180)	DOC: SOP/PCB/01 12 JUL 2016 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-3 µg/kg)
	Organo Chlorine Pesticides			
		Gama-BHC	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Endrin	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Cis – Chlordane	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Trans – Chlordane	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Oxy- Chlordane	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Beta-BHC	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Alpha-BHC	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Aldrin	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)

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	Crustaceans (shrimp) and Fish	Dieldrin	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		Heptachlor	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		HCB	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		2,4' DDT	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
		4,4' DDT	DOC: SOP/PEST/01 (Rev. 00 Date: 16 Mar 2015)	10 µg/kg to 1000 µg/kg (LOD-5 µg/kg)
	Sulphonamides			
		Sulfapyridine (SPD)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulphadiazine (SDZ)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfamethoxizole(SMTX)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfathiazole(STZ)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfamerazine(SMR)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfamethizole(SMTZ)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)

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	Crustaceans (shrimp) and Fish	Sulfamethazine(SMT)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfamethoxyipyridazine(SMP)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfadimethoxine(SDM)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfadoxine(SD)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
		Sulfachloropyridazine(SCP)	DOC: SOP/SULFA/00 22 DEC 2015 (Rev. 00)	5 µg/kg to 1000 µg/kg (LOD-2 µg/kg)
	Quinolones & Fluroquinolones			
		Nalidixic acid (NXA)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Oxolinic acid(OXO)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Flumequine (FLU)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Norfloxacin (NOR)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Ciprofloxacin (CIP)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Enrofloxacin (ENR)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)

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	Crustaceans (shrimp) and Fish	Sarafloxacin (SAR)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Difloxacin (DIF)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
		Danofloxacin (DAN)	DOC:SOP/ QUIN/00 26 MAY 2016 (Rev. 00)	5 µg/kg to 2000 µg/kg (LOD-2 µg/kg)
	Chemical Elements			
		Mercury (Hg)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	9 µg/kg to 5000 µg/kg (LOD-3 µg/kg)
		Arsenic (As)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	40 µg/kg to 5000 µg/kg (LOD-12 µg/kg)
		Lead (Pb)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	22 µg/kg to 5000 µg/kg (LOD-7 µg/kg)
		Cadmium (Cd)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	2 µg/kg to 5000 µg/kg (LOD-1 µg/kg)
	Fish			
		Mercury (Hg)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	33 µg/kg to 5000 µg/kg (LOD-10 µg/kg)
		Arsenic (As)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	7 µg/kg to 5000 µg/kg (LOD-2 µg/kg)

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	Crustaceans (shrimp) and Fish	Lead (Pb)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	27 µg/kg to 5000 µg/kg (LOD-9 µg/kg)
		Cadmium (Cd)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	2 µg/kg to 5000 µg/kg (LOD-1 µg/kg)
	Cephalopods			
	Mercury (Hg)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	34 µg/kg to 5000 µg/kg (LOD-10 µg/kg)	
	Arsenic (As)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	350 µg/kg to 5000 µg/kg (LOD-100 µg/kg)	
	Lead (Pb)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	12 µg/kg to 5000 µg/kg (LOD-4 µg/kg)	
	Cadmium (Cd)	DOC:SOP/ CE/02 EN 13804:2013 09 MAR 2016 (Rev. 00)	6 µg/kg to 5000 µg/kg (LOD-1 µg/kg)	

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