

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Fish &amp; Fishery Products</b>	Total Plate Count/ Total Viable Count/ QMAFAnM	FDA-BAM 2001, Chapter. 3 AOAC (19 <sup>th</sup> Edition), 2012 990.12: Chapter. 17, Page. 12	≥10 cfu / g
	<b>Fresh, Frozen, Dried &amp; Chilled</b>	Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3->1100 MPN/g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 AOAC (19 <sup>th</sup> Edition), 2012 2001.05: Chapter. 17, Page. 99, ISO 6888: 1999	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g or Absent in 0.001 gm
		Faecal Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/ Absent)/25 g
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/Absent)/25 g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Fish &amp; Fishery Products</b>	Listeria monocytogenes	FDA-BAM 2003, Chapter. 10 AOAC (19 <sup>th</sup> Edition), 2012 999.06: Chapter. 17, Page. 250	Qualitative (Present/Absent)/25 g
	<b>Fresh, Frozen, Dried &amp; Chilled</b>	Sulphite Reducing Clostridium	EIA/Kochi/Lab/ SOP/Micro/12 (Issue No. 02; Date:28/10/2008)	Qualitative (Present / Absent)/50 g
		Bacterial Inhibitors / Antimicrobial substances by Four Plate Method	CNEVA Doc. No: UCM 90/01/Rev.1/EN Page No: 1 to 12	Qualitative (Positive /Negative)
<b>2.</b>	<b>Fish &amp; Fishery Products</b>	White Spot Syndrome Virus (WSSV)	EIA/Koc/Lab/SOP/Micro/ WSSV/29 Issue No. 01; Date: 28/06/2013	Qualitative (Detected/Not detected)
	<b>Shrimps (Fresh, Frozen, Dried &amp; Chilled)</b>	Yellow Head Virus (YHV)	EIA/Koc/Lab/SOP/Micro/YHV/ 30 Issue No. 01; Date: 28/06/2013	Qualitative (Detected/Not detected)
		Taura Syndrome Virus (TSV)	EIA/Koc/Lab/SOP/Micro/TSV/ 31 Issue No. 01; Date: 28/06/2013	Qualitative (Detected/Not detected)
		Infectious Hypodermal & Hematopoietic Necrosis Virus (IHHNV)	EIA/Koc/Lab/SOP/Micro/IHHN V/37 Issue No. 01; Date: 06/01/2014	Qualitative (Detected/Not detected)
		Infectious Myonecrosis Virus (IMNV)	EIA/Koc/Lab/SOP/Micro/ IMNV/38 Issue No. 01; Date: 06/01/2014	Qualitative (Detected/Not detected)
<b>3.</b>	<b>Animal Feed</b>			
<b>a.</b>	<b>Fish Meal</b>	Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu/g; <3->1100 MPN /g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>3 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Fish Meal</b>	Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 AOAC (19 <sup>th</sup> Edition), 2012 2001.05: Chapter. 17, Page. 99, ISO 6888: 1999	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/ Absent)/25 g
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/Absent)/25 g
<b>4.</b>	<b>Poultry Meat &amp; Poultry Meat Products</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3 AOAC (19 <sup>th</sup> Edition), 2012 990.12: Chapter. 17, Page. 12	≥10 cfu / g
	<b>(Fresh, Frozen, Dried &amp; Chilled)</b>	Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3-> 1100 MPN /g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 AOAC (19 <sup>th</sup> Edition), 2012 2001.05: Chapter. 17, Page. 99, ISO 6888: 1999	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Poultry Meat &amp; Poultry Meat Products</b>  <b>(Fresh, Frozen, Dried &amp; Chilled)</b>	Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/ Absent)/25 g
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/ Absent)/25 g
		Listeria monocytogenes	FDA-BAM 2003, Chapter. 10 AOAC (19 <sup>th</sup> Edition), 2012 999.06: Chapter. 17, Page. 250	Qualitative (Present/ Absent)/25 g
		Sulphite Reducing Clostridium	EIA/Kochi/Lab/ SOP/Micro/12 (Issue No.: 02; Date:28/10/2008)	Qualitative (Present/ Absent)/50 g
		Bacterial Inhibitors / Antimicrobial Substances by Four Plate Method	CNEVA Doc. No: UCM 90/01/Rev.1/EN Page No: 1 to 12	Qualitative (Positive/ Negative)
<b>5.</b>	<b>Meat &amp; Meat Products</b>  <b>(Fresh, Frozen, Dried &amp; Chilled)</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3 AOAC (19 <sup>th</sup> Edition), 2012 990.12: Chapter. 17, Page. 12	≥10 cfu / g
		Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g; <3->1100 MPN /g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 AOAC (19 <sup>th</sup> Edition), 2012 2001.05: Chapter. 17, Page. 99, ISO 6888: 1999	≥10 cfu / g;

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Meat &amp; Meat Products</b>	Total Coliforms	FDA-BAM 2002, Chapter 4	<3->1100 MPN /g ≥10 cfu / g
	<b>(Fresh, Frozen, Dried &amp; Chilled)</b>	Salmonella spp.	FDA-BAM 2007, Chapter 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	FDA-BAM 2004, Chapter 9 ISO 21872-1: 2007	Qualitative (Present/ Absent)/25 g
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter 9 ISO 21872-1: 2007	Qualitative (Present/Absent)/25 g
		Listeria monocytogenes	FDA-BAM 2003, Chapter 10 AOAC (19 <sup>th</sup> Edition), 2012 999.06: Chapter. 17, Page. 250	Qualitative (Present/Absent)/25 g
		Sulphite Reducing Clostridium	EIA/Kochi/Lab/ SOP/Micro/12 (Issue No. 02; Date:28/10/2008)	Qualitative (Present / Absent)/50 g
		Bacterial Inhibitors / Antimicrobial Substances by Four Plate Method	CNEVA Doc. No: UCM 90/01/Rev.1/EN Page No: 1-12	Qualitative (Positive /Negative)
<b>6.</b>	<b>Milk &amp; Dairy Products</b>	Total Plate Count	FDA-BAM 2001, Chapter 3	≥10 cfu /g
		Total Coliform	FDA-BAM 2002, Chapter 4	≥10 cfu /g
		Salmonella spp.	FDA-BAM 2001, Chapter 12 AOAC (19 <sup>th</sup> Edition), 2012 2001.05: Chapter. 17, Page. 99, ISO 6888: 1999	Qualitative (Present/Absent)/25 g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>6 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Milk &amp; Dairy Products</b>	Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3->1100 MPN / g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 200, Chapter. 12 ISO 6888: 1999	≥10 cfu / g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g
		Listeria monocytogenes	FDA-BAM 2003, Chapter. 10 AOAC (19 <sup>th</sup> Edition), 2012 999.06: Chapter. 17, Page. 250,	Qualitative (Present/Absent)/25 g
<b>7.</b>	<b>Salt</b>	Staphylococcus aureus (Coagulase +ve)	FDA-BAM 200, Chapter. 12 ISO 6888: 1999	≥10 cfu / g
		Sulphite Reducing Clostridium	FDA-BAM, 2001, Chapter. 16 EIA/Kochi/Lab/ SOP/Micro/12 (Issue No. 02; Date:28/10/2008)	Qualitative (Present / Absent)/50 g
<b>8.</b>	<b>Eggs &amp; Egg Product</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3	≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 200, Chapter. 12 ISO 6888: 1999	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN / g ≥10 cfu / g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001) ISO 21528-2: 2004	≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>7 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>9.</b>	<b>Spices &amp; Condiments (Ground, Whole &amp; Blended)</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3 AOAC (19 <sup>th</sup> Edition), 2012 990.12: Chapter. 17, Page. 12	≥10 cfu / g
		Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3->1100 MPN /g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001;, Chapter. 12 AOAC (19 <sup>th</sup> Edition), 2012 2001.05: Chapter. 17, Page. 99, ISO 6888: 1999	≥10 cfu / g
		Clostridium perfringens	FDA-BAM 2001, Chapter. 16	≥10 cfu / g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g
<b>10.</b>	<b>Tea &amp; Coffee</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3	≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>8 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>11.</b>	<b>All Fruits &amp; Vegetables and Ready to Serve Beverages Including Fruit &amp; Carbonated Beverages &amp; Synthetic Products</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g
		Flat Sour Organisms	FDA-BAM 2001, Chapter. 21	≥10 cfu / g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 ISO 6888: 1999	≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25g
		Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3->1100 MPN /g
		Vibrio cholera	FDA-BAM 2004, Chapter. 9 ISO 21872-1: 2007	Qualitative (Present/ Absent)/25g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g
<b>12.</b>	<b>Nuts &amp; Nuts Products (Including Dry Fruits)</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3	≥10 cfu / g
		Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3->1100 MPN /g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 ISO 6888: 1999	≥10 cfu / g



<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>9 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>13.</b>	<b>Nuts &amp; Nuts Products (Including Dry Fruits)</b>	Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158, ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Clostridium perfringens	FDA-BAM 2001, Chapter. 16	≥10 cfu / g
	<b>Cereals and Pulses (Ground /Whole)</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3	≥10 cfu / g
		Escherichia coli	FDA-BAM 2002, Chapter. 4 AOAC (19 <sup>th</sup> Edition), 2012 991.14: Chapter. 17, Page. 32	≥10 cfu / g <3->1100 MPN /g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 ISO 6888: 1999	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥ 10 cfu / g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥ 10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition) 996.08: 2012 Chapter. 17, Page. 158	Qualitative (Present/Absent)/25 g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>10 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
14.	<b>Raw, Cooked/ Processed Food Products (Fruits &amp; Vegetable Products, Carbonated Beverages, Alcoholic &amp; Non-Alcoholic Beverages Including Fruit Beverages, Jam Juice, Soups, Sauce, Pickles, Preserves etc.), Bakery &amp; Confectionary Products &amp; Ready to Eat Foods</b>	Total Plate Count	FDA-BAM 2001, Chapter. 3 AOAC (19 <sup>th</sup> Edition), 2012 990.12: Chapter. 17, Page. 12	≥10 cfu / g
		Yeast & Mould Count	FDA-BAM 2001, Chapter. 18	≥10 cfu / g
		Total Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g ≥10 cfu / g
		Salmonella spp.	FDA-BAM 2007, Chapter. 5 AOAC (19 <sup>th</sup> Edition), 2012 996.08: Chapter. 17, Page. 158 ISO 6579: 2002	Qualitative (Present/Absent)/25 g
		Staphylococcus aureus (Coagulase +ve)	FDA-BAM 2001, Chapter. 12 AOAC (19 <sup>th</sup> Edition), 2012 Chapter. 17, Page. 99, 2001.05 ISO 6888: 1999	≥10 cfu / g
		Clostridium perfringens	FDA-BAM 2001, Chapter. 16	≥10 cfu / g
		Fecal Coliforms	FDA-BAM 2002, Chapter. 4	<3->1100 MPN /g
		Fecal Streptococci	IS 5887 (Part 2): 1976 (RA 2009)	≥ 10 cfu / g
		Thermophilic Bacteria	FDA-BAM 2002, Chapter. 21A	Qualitative (Present/Absent)/25 g

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>11 of 12</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
15.	<b>Food &amp; Agricultural Products</b>  (Soya & Soya Derived, Rice & Rice Derived, Maize & Maize Derived, Wheat & Wheat Derived Products, Rape Seed & Its Meal, Spices (Including Pepper), Guar Korma Meal, Cumin Seeds, Coriander, Ground Nut & Ground Nut Meal) Fruit Pulp	Targeted Screening of Genetically Modified Organism (GMO); Promoter (35S) & Terminator (NOS)	EIA/Kochi/Lab/SOP/ Micro/GMO/34 Issue No.: 01; Date: 28/06/2013 (Revision No. 01; Date: 24/07/2015)	Qualitative (Detected/Not detected) at 0.1 %
II.	<b>WATER</b>			
1.	<b>Water (used in Food Processing Industry)</b>	Total Plate Count	APHA (22 <sup>nd</sup> Edition) 9215 B	≥01 cfu/ml
		Total Coliforms	APHA (22 <sup>nd</sup> Edition) 9221 B	≤1.8-≥1600 MPN/100 ml
		Fecal Coliforms & E. coli	APHA (22 <sup>nd</sup> Edition) 9221 E& F	≤1.8-≥1600 MPN/100 ml
		Salmonella spp.	APHA (22 <sup>nd</sup> Edition) 9260 B	Qualitative (Present/Absent)/100 ml
		Fecal Streptococci/ Enterococci	APHA (22 <sup>nd</sup> Edition) 9230 B	≤1.8-≥1600 MPN/100 ml

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
<b>Certificate Number</b>	<b>T-1217</b>	<b>Valid Until</b>	<b>10.09.2017</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>12 of 12</b>

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Water (used in Food Processing Industry)	Vibrio cholera	APHA (22 <sup>nd</sup> Edition) 9260 H	Qualitative (Present/Absent)/100 ml
		Sulphite Reducing Clostridium	IS 13428: 2005	<1->180 MPN/100 ml
		Proteolytic & Lipolytic Organism	IS 4251: 1967	≥01 cfu/ml
		Pseudomonas aeruginosa	APHA (22 <sup>nd</sup> Edition) 9213 F	≤1.8-≥1600 MPN/100 ml
		Vibrio parahaemolyticus	FDA-BAM 2004, Chapter. 9	Qualitative (Present/Absent)/25 g/ ml
-X-X-X-X-X-X-X-X-X-X-X-X-				