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Bijlage bij accreditatiecertificaat  
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# 167-TEST

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The accreditation is granted to / De accreditatie werd uitgereikt aan /  
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## Abbreviations

AOAC	Official Methods of Analysis, Association of Official Analytical Chemists, 21st Edition
APHA	Standard Methods for the Examination of Water and Waste Water, APHA, 23rd Edition
EAS	East African Standard
DIN	Deutsches Institut für Normung

Internal code	Test sample/ Product/ Matrix	Property determined/ Parameter determined/ Type of test	Standard specifications + Equipment or Techniques used
<b>MICROBIOLOGY</b>			
<b>Foodstuffs</b>			
PC-food/ cosmetics-TA	Foodstuffs	Enumeration of Total aerobic Plate Count at 30°C	ISO 4833-1 Pour plate
PC-food-T/F-coli	Foodstuffs	Enumeration of total and thermotolerant coliforms	ISO 4832 Pour plate
PC-food-E.coli	Foodstuffs	Enumeration of <i>Escherichia coli</i> (45°C)	ISO 16649-2 Pour plate
Qual-food-salm	Foodstuffs	Detection of <i>Salmonella</i>	ISO 6579-1 Enrichment and streak plate
PC-food/ cosmetics-Coa+_staph	Foodstuffs	Enumeration of coagulase positive <i>Staphylococci</i> (including <i>Staphylococcus aureus</i> )	ISO 6888-1 Spread plate
PC-food-ASR	Foodstuffs	Enumeration of sulphite reducing anaerobes	ISO 15213 Pour plate
PC-food-F.Strep	Foodstuffs	Enumeration of <i>Intestinal Enterococci</i>	In house method Spread plate
Qual-food-vibrio	Foodstuffs	Detection of potentially enteropathogenic <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i>	ISO 21872-1 Enrichment and streak plate
Qual-food-L.mono	Foodstuffs	Detection of <i>Listeria monocytogenes</i>	ISO 11290-1 Enrichment and streak plate
PC-food-F.entero 30°C PC-food-F.entero 37°C	Foodstuffs	Enumeration of <i>Enterobacteriaceae</i> (30°C) and (37°C)	ISO 21528-2 Pour plate
PC-food-Lis_quant	Foodstuffs	Enumeration of <i>Listeria monocytogenes</i>	ISO 11290-2 Spread plate
PC-food-Clos_Perf	Foodstuffs	Enumeration of <i>Clostridium perfringens</i>	ISO 7937 Pour plate
PC-food/ cosmetics-Moulds & yeasts_ <i>Candida albicans</i>	Foodstuffs	Enumeration of <i>Yeasts and moulds</i>	In house based on ISO 6611:2004, ISO 21527-1:2008 and 21527-2:2008 Spread plate
PC-food/cosmetics-Pseudo_Aer	Foodstuffs	Enumeration of <i>Pseudomonas aeruginosa in foodstuffs</i>	In house method based on ISO 13720:2010 Spread plate
PC-food-Bacillus	Foodstuffs	Enumeration of <i>Bacillus cereus</i>	ISO 7932:2004 Amd1:2020 Spread plate

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<b>Cosmetics</b>			
PC-food/ cosmetics-TA	Cosmetics	Enumeration of Total aerobic Plate Count at 30°C	ISO 21149:2017 Pour plate
PC-food/ cosmetics-Coa+_staph	Cosmetics	Enumeration of coagulase positive <i>Staphylococci</i> (including <i>Staphylococcus aureus</i> )	In house method based on ISO 22718:2015 Spread plate
PC-food/ cosmetics-Moulds & yeasts_ <i>Candida albicans</i>	Cosmetics	Detection of <i>Candida Albicans</i>	In house method based on ISO 18416:2015 Spread plate
PC-food/cosmetics-Pseudo_Aer	Cosmetics	Enumeration of <i>Pseudomonas aeruginosa</i> in cosmetics	In house method based on ISO 22717:2015 Spread plate
<b>Water</b>			
SamPL-Trans	Surface water, mineral water, source water, swimming pool water, borehole water, drinking water, potable water	Sampling and transport	ISO 5667-3
MF/PC-water-TAC22	Surface water, bottled water, mineral water and source water, potable water, swimming pool water, drinking water	Enumeration of aerobic & facultative anaerobic micro-organisms at 22°C	ISO 6222 Membrane filtration and pour plate
MF/PC-water-TAC37	Surface water, mineral water and source water, swimming pool water, potable water	Enumeration of aerobic & facultative anaerobic micro-organisms at 37°C	
MF-water-T.col	Surface water, mineral water and source water, swimming pool water, potable water	Detection and enumeration of total and thermotolerant coliforms and <i>E. coli</i>	ISO 9308-1 Membrane filtration
MF-water-F. entero	Surface water, mineral water and source water, swimming pool water, potable water	Detection and enumeration of intestinal <i>Enterococci</i>	ISO 7899-2 Membrane filtration
MF-water-ASR spores	Surface water, mineral water and source water, swimming pool water, drinking water, potable water	Detection and enumeration of spores of sulphite reducing anaerobes ( <i>Clostridia</i> )	ISO 6461-2 Membrane filtration
MF-water-Pseudo_Aer	Surface water, mineral water and source water, swimming pool water, drinking water	Detection and enumeration of <i>Pseudomonas aeruginosa</i>	ISO 16266 Membrane filtration
Qual-water-salm	Surface water, mineral water and source water, swimming pool water, drinking water, potable water	Detection of <i>Salmonella</i> species	ISO 19250 Membrane filtration, enrichment and streak plate
MF-water-Clos_Perf	Surface water, mineral water and source water, swimming pool water, drinking water, potable water	Enumeration of <i>Clostridium perfringens</i>	ISO 14189 Membrane filtration

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<b>CHEMISTRY</b>			
<b>Water</b>			
For water, the General Guidelines for the preservation and treatment of samples according to WAC/1/A/10 apply.			
Phys-water-temp	Ground water, waste water, borehole water, potable water, surface water and rain water	Temperature	APHA 2550 B Thermometry
Phys-matrix-pH	Ground water, potable water, waste water, borehole water, surface water, rain water	pH	ISO 10523 Potentiometry
Phys-water-cond	Ground water, surface water, borehole water, swimming pool water, waste water	Conductivity	ISO 7888 Potentiometry
UV/VIS-water-am-N	Drinking water, surface water, rain water, borehole water, swimming pool water, waste water	Ammonia-N	APHA 4500- NH <sub>3</sub> -F Spectrophotometry
UV/VIS-water-NO <sub>2</sub>	Waste water, surface water, borehole water, potable water	Nitrite (NO <sub>2</sub> )	APHA 4500-NO <sub>2</sub> B Spectrophotometry
UV/VIS-water-Cl <sup>-</sup>	Ground water, surface water, sea water, drinking water, mineral water & waste water	Chloride	APHA 4500-Cl <sup>-</sup> E Spectrophotometry
UV/VIS-water-NO <sub>3</sub> <sup>-</sup>	Ground water, surface water, spring water, drinking water, well, mineral water, industrial water & waste water	Nitrate	Inhouse method based on Spectroquant NO <sub>3</sub> <sup>-</sup> Spectrophotometry
UV/VIS-water-PO <sub>4</sub> <sup>2-</sup>	Ground water, surface water, sea water, waste water & industrial water	Phosphate	APHA 4500-P C Spectrophotometry

Internal code	Test sample/ Product/ Matrix	Property determined/ Parameter determined/ Type of test	Standard specifications + Equipment or Techniques used
GC-MSMS-water-OCP/OPP	Ground water, potable water, surface water, waste water	<p><b>Organochlorine pesticides</b> Aldrin, BHC, alpha-, BHC, beta-, BHC, delta-, BHC, gamma-, Chlorobenside, Chlordane, trans-, Chlordane, cis-, Chlorfenson, Chloroneb, DDD, o,p'-, DDD, p,p'-, DDE, o,p'-, DDE, p,p'-, DDT, p,p'-, DDT, o,p'-, Dichlorobenzophenone, 4,4'-, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan ether, Endosulfan sulfate, Endrin, Endrin aldehyde, Ethylan, Endrin ketone, Fenson, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Isodrin, 4,4'-Methoxychlor olefin, 2,4'-Methoxychlor, Mirex, Nonachlor, cis-, Nonachlor, trans-, Pentachlorobenzene, Pentachloroanisole, Pentachlorothioanisole, Tetradifon</p> <p><b>Organophosphorus pesticides</b> (Azinphos-ethyl, Azinphos-methyl, Bromophos methyl, Bromfenvinphos-methyl, Bromophos-ethyl, Bromfenvinphos, Chlorfenvinphos 1††, Chlorfenvinphos 2††, Chlorthiophos 1, Chlorthiophos 2, Chlorthiophos 3, Carbofenothion, Coumaphos, Chlorpyrifos methyl, Chlorpyrifos, Diazinon, Disulfoton, Dichlorvos, EPN, Ethion, Edifenphos, Entrimfos, Fenamiphos, Fenitrothion, Fenchlorphos, Fenthion, Fonofos, Iodofenos, Isazophos, Leptophos, Mevinphos, Methyl parathion, Malathion, Methacrifos, Prothiofos, Piperonyl butoxide, Phosphamidon, Phosalone, Phorate, Profenofos, Phosmet, Pyridaphenthion, Pyrazophos, Pyraclofos, Parathion, Pirimiphos ethyl, Pirimiphos methyl, Quinalphos, Sulprofos, Sulfotep, Terbufos, Triazophos, Tolclofos-methyl, Tetrachlorvinphos)</p>	In house method GC-MSMS
GC-MSMS-water-PAH	Ground water, potable water, surface water, waste water	<p><b>Polycyclic aromatic hydrocarbons</b> (<i>naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene and j, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene, PAH4</i>)</p>	In house method GC-MSMS
GC-MSMS-water-PCB	Ground water, potable water, surface water, waste water	<p><b>Polychlorinated Biphenyls</b> (PCB 1, PCB 5, PCB 18, PCB 28, PCB 29, PCB 44, PCB 52, PCB 66, PCB 87, PCB 101, PCB 110, PCB 118, PCB 138, PCB 141, PCB 149, PCB 151, PCB 153, PCB 170, PCB 180, PCB 183, PCB 187, PCB 194, PCB 206)</p>	In house method GC-MSMS
Gr-water-TSS	Waste water, surface water, borehole water, potable water	Total suspended solids	APHA 2540 D Gravimetry
Gr-water-TDS	Waste water, surface water, borehole water	Total dissolved solids	APHA 2540 C Gravimetry
phys-water-DO	Waste water, surface water, borehole water	Dissolved Oxygen	APHA 4500-O-G Membrane-Electrode
UV/VIS-water-KJN	Waste water, surface water, borehole water	Kjeldahl Nitrogen (KjN)	APHA 4500-Norg Spectrophotometry
AAS-wat-NaK	Swimming pool water, surface water, waste water, potable drinking water	Sodium Potassium	In house method Flame -AAS
AAS-wat-CaMg	Swimming pool water, surface water,	Magnesium	In house method

Internal code	Test sample/ Product/ Matrix	Property determined/ Parameter determined/ Type of test	Standard specifications + Equipment or Techniques used
FIMS-water-CaHg	waste water,potable drinking water	Calcium	Flame -AAS
FIMS-water-Hg	Swimming pool water, surface water, waste water, potable drinking water	Mercury	In house method FIMS-Hydride
GF-AAS-water-Cd	Potable water	Cadmium	In house method Graphite Furnace-AAS
MP-AES-water-metals1	Potable water	Iron	In house method Microwave Plasma-AES
		Copper	
		Aluminium	
		Zinc	
		Chromium	
MP-AES-water-metals2	Potable water	Calcium	Inhouse method Microwave Plasma-AES
		Magnesium	
		Sodium	
		Potassium	
		Nickel	
		Manganese	
		Cobalt	
MP-AES-water-P	Potable water	Phosphorus	In house method Microwave Plasma-AES

Internal code	Test sample/ Product/ Matrix	Property determined/ Parameter determined/ Type of test	Standard specifications + Equipment or Techniques used
<b>Milk and milk products</b>			
Gr- milk-fat	Milk and milk products	Fat content	AOAC 989.05 Gravimetry
Phys-matrix-pH	Milk and milk products	pH	EAS 27:2018 Annex A Potentiometry
Titr-milk-acidity	Milk and milk products	Titrateable acidity	In house method Titrimetry
<b>Honey</b>			
UV/VIS-honey-HMF	Honey	Hydroxy methyl furfural (HMF)	AOAC 44.4.15 Spectrophotometry
Phys-honey-moisture	Honey	Moisture content	AOAC 969.38B Refractometry
<b>Food/ Feed</b>			
Gr-food/feed-moisture	Food and feed	Moisture content	AOAC 39.1.02 Gravimetry
Gr-food/feed-ash	Food and feed	Ash content	AOAC 24.009 Gravimetry
Gr- food/feed-fat	Food and feed	Fat content	AOAC 24.005 Gravimetry
Titr-food/feed-KJN-protein	Food and feed	Protein : Kjeldahl - N	In house method Titrimetry
Gr-food/feed-crude fibre	Food and feed	Crude fibre	In house method
AAS-food/feed-NaK	Food and feed	Sodium	In house method Flame -AAS
		Potassium	
AAS-food/feed-CaMg	Food and feed	Magnesium	In house method Flame -AAS
		Calcium	
MP-AES_flour-Fe/Zn	Food and feed	Iron	In house method MPAES
MP-AES_flour-Fe/Zn	Food and feed	Zinc	In house method MPAES
FIMS-food/feed-Hg	Food and feed	Mercury	In house method FIMS-Hydride



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GF-AAS-food/feed-Cd	Food and feed	Cadmium	AOAC 999.10 Graphite Furnace-AAS
GF-AAS-food/feed-Pb		Lead	
HPTLC-food/feed-Vit A	Food & feed	Vitamin A content	In house method HPTLC
HPLC-food-Vit A	Food	Vitamin A content	In house method HPLC-DAD
HPLC-bev-Caffeine	Beverages	Caffeine	In house method HPLC-DAD
Titr-fish-TVB-N	Fish and fish products	TVB-N (total volatile basic nitrogen)	Commission Regulation EU 2074/2005 Chapter III Titrimetry
GC-MSMS-fish-OCP/OPP	Fish and Fish products	Organochlorine pesticides (Aldrin, Alpha - BHC, Beta - BHC, Gamma - BHC, Delta - BHC, Chlordanes trans, Chlordane Cis, 4,4 DDE, 2,4 DDE, 4,4 DDD, 2,4 DDD, 4,4 DDT, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, Endrin, Endrin aldehyde, Heptachlor epoxide, Heptachlor, Methoxychlor)	In house method GC-MSMS
		Organophosphorus pesticides (Chloropyrifos methyl, Chloropyrifos, Diazinon, Dichlorvos, Entrimfos, Fenitrothion, Malathion, Methacrifos, Parathion, Phosphomidon, Pirimiphos ethyl, Pirimiphos methyl)	
GC-MSMS-food-PAH	Foods of animal origin	Polycyclic aromatic hydrocarbons (naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene and j, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene, PAH4)	In house method GC-MSMS
Pest-fr_veg-ntr_extr	Fruits and vegetables	Organochlorine pesticides (Aldrin, Alpha - BHC, Beta - BHC, Gamma - BHC, Delta - BHC, Chlordanes trans, Chlordane Cis, 4,4 DDE, 2,4 DDE, 4,4 DDD, 2,4 DDD, 4,4 DDT, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, Endrin, Endrin aldehyde, Heptachlor epoxide, Heptachlor, Methoxychlor)	In house method GC-MSMS
		Organophosphorus pesticides (Chloropyrifos methyl, Chloropyrifos, Diazinon, Dichlorvos, Entrimfos, Fenitrothion, Malathion, Methacrifos, Parathion, Phosphomidon, Pirimiphos ethyl, Pirimiphos methyl)	
Pest-fr_veg-S2carb	Fruits and vegetables	Dithiocarbamates	In house method Spectrophotometry
<b>Cosmetics</b>			
HPLC-cosmetics-hydroquinone	Cosmetics	Hydroquinone	In house method HPLC-DAD