



Bijlage bij accreditatie-certificaat
Annexe au certificat d'accréditation
Annex to the accreditation certificate
Beilage zur Akkreditierungszertifikat

054-TEST

EN ISO/IEC 17025:2005

| | |
|---|-------------------------|
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The accreditation is granted to/ Die akkreditierung wurde erteilt für:**

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LIJST MET AFKORTINGEN

| | |
|--------|--|
| A.S.L. | Amtliche Sammlung von Untersuchungsverfahren - Lebensmittel |
| CMA | Compendium voor Monsternamen en Analyse |
| DIN | Deutsches Institut für Normung |
| ISO | International organization for Standardization |
| ISO/R | International organization for Standardization/Recommendation |
| ISO/TC | International organization for Standardization/Technical Committee |
| KB | Koninklijk Besluit |
| EN | Europese Norm |
| NF V | Norme française - Viande |
| WAC | Water Analyse Compendium |
| XP V | Norme française de routine expérimentale - Viande |

WETTELIJKE REFERENTIES

- EG/152/2009 : *Verordening (EG) Nr. 152/2009 van de Commissie van 27 januari 2009 tot vaststelling van de bemonsterings- en analysemethoden voor de officiële controle van diervoeders*
- MB 19/06/1995 : *Ministerieel besluit van 19 juni 1995 tot wijziging van het ministerieel besluit van 18 december 1973 tot bepaling van de laboratoriumtechnieken voor het opsporen van residuen van stoffen met een kiemgroeiremmende werking*
- KB 29/10/1987: *Koninklijk Besluit tot vaststelling van de geldende referentiemethoden voor de ontleding van producten op basis van meel. Bijlage II: bepaling van het keukenzoutgehalte op de droge stof van brood en andere bakkerijproducten*

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|------------------------------------|-------------------------------|---|----------------|--|
| MICROBIOLOGISCHE PARAMETERS | | | | |
| Eetwaren en/of diervoeders | | | | |
| SM00132 | Eetwaren | Anaeroob kiemgetal bij 37 °C | Telling | SP-VG M005 |
| SM00413 | Eetwaren en diervoeder, swabs | Aeroob mesofiel kiemgetal bij 30 °C | Telling | ISO 4833 -1 |
| SM00417 | Eetwaren | Coagulase positieve staphylococci | Telling | ISO 6888-1 |
| SM01574 | Eetwaren en diervoeder, swabs | Enterobacteriaceae bij 37 °C | Telling | AFNOR BRD 07/24-11/13 |
| SM00415 | Eetwaren | Coliformen bij 30 °C | Telling | ISO 4832 |
| SM00416 | Eetwaren | Thermotolerante coliformen bij 44 °C | Telling | NF V08-060 |
| SM00386 | Eetwaren | Bacillus cereus bij 30 °C | Telling | ISO 7932 |
| SM00404 | Eetwaren | Beta-glucuronidase positieve Escherichia coli | Telling | ISO 16649-2 |
| SM00407 | Eetwaren en diervoeder | Clostridium perfringens | Telling | ISO 7937 |
| SM00418 | Eetwaren | Schimmels en gisten bij 25 °C | Telling | ISO 21527-1 en ISO21527-2 |
| SM00699 | Eetwaren en diervoeder | Sulfietreducerende anaëroben | Telling | ISO 15213 |
| SM00405 | Eetwaren | Melkzuurbacteriën | Telling | ISO 15214 |
| SM00142 | Eetwaren | Enterococci | Telling | Afgeleid van NEN 6817 |
| SM00406 | Eetwaren | Telling van Listeria monocytogenes | Telling | AFNOR BRD-07/05-09/01 |
| SM00977 | Vlees -en vleeswaren | Campylobacter | Telling | Microval MV2008LR12 |
| SM00199 | Yoghurt | Lactobacillus bulgaricus en Streptococcus thermophilus | Telling | ISO 7889 |
| SM00390 | Yoghurt | Vermoedelijke Bifidobacterium | Telling | ISO 29981 |
| SM00419 | Eetwaren en diervoeder, Swabs | Salmonella | Opsporing | AFNOR BRD 07/11-12/05 Rapid Salmonella short protocol |
| SM01573 | Eetwaren | Opsporing van Listeria en Listeria monocytogenes | Opsporing | AFNOR BRD-07/4-09/98 |
| SM00408 | Swabs | | | |
| SM01262 | Vis, schaal- en schelpdieren | Potentieel enteropathogene Vibrio parahaemolyticus | Opsporing | ISO 21872 |
| SM00813 | Nieren | Opsporen van residuen van stoffen met kiemgroeiremmende werking | Agar diffusion | Officiële methode MB 1995/06/19 (New Belgian Kidney Test) |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|-------------------------------|--------------|---|--------------------------------|--|
| Waters | | | | |
| SM00400 | Drinkwater | Totaal kiemgetal bij 22 °C en bij 37 °C | Telling | ISO 6222 WAC/V/A/001 |
| SM00047 | Drinkwater | Coliformen en Escherichia coli | Telling na membraanfiltratie | ISO 9308-1 WAC/V/A/002 |
| SM00403 | Drinkwater | Enterococcen | Telling na membraanfiltratie | ISO 7899-2 WAC/V/A/003 |
| SM00402 | Drinkwater | Pseudomonas aeruginosa | Telling na membraanfiltratie | ISO 16266 WAC/V/A/006 |
| SM01575 | Flessenwater | | | AFNOR BRD 07/21-04/12 WAC/V/A/006 |
| SM00380 | Drinkwater | Clostridium perfringens | Telling na membraanfiltratie | ISO14189 WAC/V/A/007 |
| SM00131 | Drinkwater | Salmonella | Opsporing na membraanfiltratie | ISO 19250 WAC/V/A/004 |
| ELISA en Real Time PCR | | | | |
| SM00116 | Eetwaren | Opsporen van wei-eiwit en caseïne-eiwit | ELISA | Methode gebaseerd op de Veratox kit (Neogen) |
| SM00182 | Eetwaren | Opsporen van soya-eiwit | ELISA | Methode gebaseerd op de Veratox kit (Neogen) |
| SM00794 | Eetwaren | Opsporen van gluten-eiwit | ELISA | Methode gebaseerd op de Veratox kit (Neogen) |
| SM01561 | Eetwaren | Opsporen van DNA van varken | RT-PCR | Methode gebaseerd op kit van life technologies |
| SM01562 | Eetwaren | Opsporen van DNA van rund | RT-PCR | Methode gebaseerd op kit van life technologies |
| SM01563 | Eetwaren | Opsporen van DNA van paard | RT-PCR | Methode gebaseerd op kit van life technologies |
| SM04051 | Eetwaren | GMO screening (p34, p 35, tNOS merkerelementen) | RT-PCR | Methode gebaseerd op kit van life technologies |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|-----------------------------------|---|---------------------------------|-------------------------------|--|
| ANORGANISCHE PARAMETERS | | | | |
| Eetwaren en/of diervoeders | | | | |
| SM00449 | Eetwaren en diervoeder | Vocht (droge stof) | Gravimetrie | Gebaseerd op ISO 1442 |
| SM00106 | Gesuikerde eetwaren | Vocht (droge stof) | Gravimetrie - vacuüm | Gebaseerd op ISO 1742 |
| SM00579 | Eetwaren en diervoeder | Stikstof (eiwit) | Kjeldahl methode | ISO 1871 |
| SM00022 | Vlees en vleeswaren | Stikstof (eiwit) | Kjeldahl methode | ISO/R 937 |
| SM00764 | Eetwaren en diervoeder | Totale as | Gravimetrie | Gebaseerd op ISO 936 |
| SM00586 | Eetwaren en diervoeder | Reducerende suikers na inversie | Titrimetrie | Gebaseerd op EG/152/2009 |
| SM01030 | Eetwaren en diervoeder | Totaal vet | Gravimetrie (manueel) | Gebaseerd op ISO 1443 |
| SM01031 | Eetwaren en diervoeder | Totaal vet | Gravimetrie (geautomatiseerd) | Gebaseerd op ISO 1443 |
| SM00122 | Eetwaren | Totale voedingsvezels | Gravimetrie | Gebaseerd op A.S.L.00.00.18 |
| SM00684 | Eetwaren | Zetmeel | Enzymatische bepaling | Gebaseerd op kit Boehringer Mannheim (Starch, UV method) |
| SM00059 | Eetwaren | Sulfiet | Enzymatische bepaling | Methode gebaseerd op Boehringer Mannheim (Sulfite, UV methode) |
| SM00333 | Eetwaren | Citroenzuur | Enzymatische bepaling | Gebaseerd op kit Boehringer Mannheim (Citric acid, UV method) |
| SM00353 | Eetwaren | Ascorbinezuur | Enzymatische bepaling | Methode gebaseerd op Boehringer Mannheim (L-Ascorbic acid, UV methode) |
| SM00123 | Eetwaren | As onoplosbaar in HCl | Gravimetrie | Gebaseerd op ISO 763 |
| SM00109 | Eetwaren | Vrije vetzuren | Titrimetrie | Gebaseerd op Verordening (EU) 2016/1227 |
| SM00110 | Eetwaren | Peroxydegetal | Titrimetrie | Gebaseerd op Verordening (EEG) 2568/91 |
| SM00192 | Eetwaren | Dichtheid | Pyknometrie | Gebaseerd op ISO 2172 |
| SM00744 | Eetwaren met uitzondering van vlees en vleesproducten | pH | Potentiometrie | Gebaseerd op ISO 1842 |
| SM00009 | Vlees en vleeswaren | Zout | Volhard methode | ISO 1841 |
| SM00012 | Vlees en vleeswaren | pH | Potentiometrie | Gebaseerd op ISO 2917 |
| SM00023 | Vlees en vleeswaren | Vrij vet | Gravimetrie | ISO 1444 |
| SM00026 | Vlees en vleeswaren | Hydroxyproline | Spectrofotometrie | ISO 3496 |
| SM00024 | Vlees en vleeswaren | Nitriet | Spectrofotometrie | ISO 2918 |
| SM00025 | Vlees en vleeswaren | Nitraat | Spectrofotometrie | ISO 3091 |
| SM00043 | Vlees en vleeswaren | Totaal fosfor | Spectrofotometrie | Gebaseerd op NEN ISO 13730 |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|------------------|--|---------------------------|----------------------------|---|
| SM00066 | Vlees en vleeswaren | Glutaminezuur | Enzymatische bepaling | Methode gebaseerd op Boehringer Mannheim (L-glutaminic acid, colorimetric method) |
| SM00796 | Vis | Vluchtige basen (TVB-N) | Destillatie en titrimetrie | Gebaseerd op Verordening (EG) 2074/2005 |
| SM00010 | Brood en andere bakkerijproducten | Keukenzout op droge stof | Titrimetrie en gravimetrie | KB van 29 oktober 1987 tot vaststelling van de geldige referentiemethoden voor de ontleding van producten op basis van meel |
| SM00103 | Brood en andere bakkerijproducten | Droge stof | Gravimetrie | KB van 29 oktober 1987 tot vaststelling van de geldige referentiemethoden voor de ontleding van producten op basis van meel |
| SM00088 | Producten op basis van groenten en fruit | Totale zuurheid | Titrimetrie | Gebaseerd op AOAC 942.15 |
| SM00119 | Producten op basis van groenten en fruit | Brix | Refractometrie | Gebaseerd op AOAC 932.14 |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|---------------|--|--|--|--------------------------------------|
| Waters | | | | |
| SM00013 | Drink-, afval-, grond- en oppervlaktewater | Geleidbaarheid | Conductometrie | ISO 7888 WAC/III/A/004 |
| SM00053 | Drink-, afval-, grond- en oppervlaktewater | pH | Potentiometrie | WAC/III/A/005 |
| SM00148 | Drink-, grond-, oppervlakte- en afvalwater | Droogrest | Gravimetrie | WAC/III/A/001 |
| SM00042 | Drink-, grond- en oppervlaktewater | Bepaling van alkaliniteit en buffercapaciteit | Titrimetrie | ISO 9963-1 WAC/III/A/006 |
| SM00041 | Drinkwater | Totale hardheid | Titrimetrie | ISO 6059 |
| SM01576 | Drink-, grond-, oppervlakte- en afvalwater | Totale hardheid | berekening van de totale hardheid uit Ca en Mg na ICP-MS | WAC/III/A/009 |
| SM00360 | Drink-, grond-, oppervlaktewater | Opgelost Fluoride, chloride, nitraat, sulfaat, nitriet en orthofosfaat | anionen-chromatografie | NF EN ISO 10304 – 1 WAC/III/C/001 |
| | Afvalwater | Opgelost Chloride, nitraat, sulfaat en orthofosfaat | | |
| SM01199 | absorptievloeistoffen | HCl | anionenchromatografie | LUC/III/001 |
| SM00029 | afvalwater | Totaal anorganisch gebonden fluoride | ionselectieve electrode | WAC/III/C/020 |
| SM01222 | absorptievloeistoffen | HF | ionselectieve electrode | LUC/III/006 |
| SM01367 | Absorptievloeistoffen | SO _x als sulfaat | anionenchromatografie | NF EN ISO 10304-1 LUC/III/008 |
| SM00062 | Drink-, afval-, grond- en oppervlaktewater | Nitriet | Spectrofotometrie | ISO 6777 WAC/III/C |
| SM00508 | Afval-, grond- en oppervlaktewater | Ammonium stikstof (hoog niveau) (> 2.0 mg N/l) | Titrimetrie na destillatie | WAC/III/E/022 |
| SM00634 | Drink-, afval-, grond- en oppervlaktewater | Ammonium stikstof (laag niveau) (≤ 2.0 mg N/l) | Manuele spectrometrie | ISO 7150 WAC/III/E/020 |
| SM00083 | Afval- en oppervlaktewater | totaal o-fosfaat | Manuele spectrofotometrie met ammoniummolybdaat | ISO 6878 WAC/III/D |
| SM00052 | Drink-, grond- en oppervlaktewater | Oxydeerbaarheid | Titrimetrie | ISO 8467 WAC/III/D/022 |
| SM00152 | Afval-, grond- en oppervlaktewater | Kjeldahlstikstof | Digestie en titratie | EN 25663 WAC/III/D/030 |
| SM00154 | Afval-, grond- en oppervlaktewater | Oliën en vetten (met petroleumether extraheerbare stoffen) | Gravimetrie | WAC/IV/B/005 |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|-----------------------------------|--|--|---|--|
| SM00163 | Afval-, grond- en oppervlaktewater | Vaste stoffen in suspensie | Gravimetrie | NF EN 872 WAC/III/D/002 |
| SM00512 | Afval-, grond- en oppervlaktewater | Bezinkbare stoffen | Imhoffkegel | WAC/III/D/001 |
| SM00511 | Afval-, grond- en oppervlaktewater | Chemische zuurstofverbruik (CZV) | Spectrofotometrie | ISO 15705 WAC/III/D/020 |
| SM01044 | Afvalwater | BOD bepaling na 5 dagen | Verdunning en enting met onderdrukking van nitrificatie – elektrochemie | ISO 5815-1 WAC/III/D/010 |
| SM00537 | Afval-, grond- en oppervlaktewater | Totaal N | Berekening: som van Kjeldahl-N, nitraat-N en nitriet-N | WAC/III/D |
| SM00663 | Afval-, grond- en oppervlaktewater | Opgelost Cr (VI) | Spectrofotometrie | WAC/III/C |
| AAS/ICP PARAMETERS | | | | |
| Eetwaren en/of diervoeders | | | | |
| SM00446 | Eetwaren en diervoeder | Natrium | Verassing en ICP-AES | Gebaseerd op A.S.L.07.00.56 |
| SM01571 | Eetwaren en diervoeding | Arseen, Cadmium, Kwik, Lood, Aluminium, Ijzer, Koper, Nikkel, Zink | microgolfdigestie en ICP-MS | Eigen methode |
| SM00074 | Eetwaren | Tin | Verassing en ICP-OES | Eigen methode |
| Waters | | | | |
| SM01569 | Drink-, afval-, grond- en oppervlaktewater | Hg | ICP-MS | WAC/III/B/002 WAC/III/B/011 ISO 17294-01 en 02 |
| SM04599 | Drink-, afval-, grond- en oppervlaktewater | Ag, Al, As, B, Ba, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, P, Pb, Sb, Se, Zn | ICP-MS | WAC/III/B/002 WAC/III/B/011 |
| | Drinkwater, grondwater | Ca, Mg, K, Na | | ISO 17294-01 en 02 |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|-------------------------------------|---|--|--|---|
| CHROMATOGRAFISCHE PARAMETERS | | | | |
| Eetwaren en/of diervoeders | | | | |
| SM00002 | Eetwaren | Benzoë- en sorbinezuur | HPLC-UV | Gebaseerd op A.S.L. 00.00-9 |
| SM00716 | Eetwaren | Vetzuurspectrum | Vetextractie, methylering en GC-FID detectie | Eigen methode |
| SM01410 | Eetwaren | Glucose, Fructose, Saccharose, Maltose, Lactose, Sorbitol, Maltitol, Xylitol | LC-MSMS | Eigen methode |
| SM00230 | Eetwaren | Wateroplosbare vitamines: Vitamine B1 (thiamine), Vitamine B2 (riboflavine), Vitamine B3 (niacine), Vitamine B5 (pantotheenzuur), Vitamine B6 (pyridoxine), Vitamine H (biotine) | LC-MSMS | Eigen methode met interne standaardisatie |
| SM00240 | Eetwaren | Vetoplosbare vitamines: Vitamine A (retinol), Vitamine D2 (ergocalciferol), Vitamine D3 (cholecalciferol), Vitamine E (alfatocoferol) | LC-MSMS | Eigen methode met interne standaardisatie |
| SM00703 | Eetwaren | Aspartaam, Saccharine, Acesulfam K | HPLC-UV | Eigen methode |
| SM00707 | (Vaste en vloeibare) eetwaren | Cafeïne | HPLC-UV | Eigen methode |
| SM00712 | Chocolade en chocolade bevattende producten | Theobromine | HPLC-UV | Eigen methode |
| SM00040 | Eetwaren | Synthetisch wateroplosbare kleurstoffen (kwalitatief) | TLC | Afgeleide van A.S.L. 26.11.03/14 |
| SM00200 | Eetwaren | Aflatoxines (G1, G2, B1, B2), Aflatoxine M1, Deoxynivalenol, Ochratoxine A, Fumonisine B1, Fumonisine B2, Toxine T2, Toxine HT2, Zearalenone | LC-MSMS | Eigen methode |
| SM00300 | Eetwaren, diervoeder | Aflatoxines (G1, G2, B1, B2) | ELISA-screening | Eigen methode |
| SM00344 | Fruït en groenten | Bromide en Nitraat | HPLC-IC | NF EN 12014-2 |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|---|--|-----------------------------|---|---|
| SM00809 | Plantaardige matrices (*) | Residu's van pesticiden (*) | QuEChERS methode met GC-MSMS en LC-MSMS | EN 15662 |
| SM00809 (**) | Voedsel van dierlijke oorsprong: eieren & eierproducten, vlees | Fipronil en Fipronil sulfon | QuEChERS methode met GC-MSMS en LC-MSMS | eigen methode |
| SM00802 | Groenten en fruit | Dithiocarbamaten | GC-MS headspace | EN 12396-02 |
| SM00941 | Ananas | Residu's van ethephon | QuPPE methode met LC-MSMS | Eigen methode |
| SM01400 | Eetwaren | Acrylamide | LC-MSMS | Eigen methode met interne standaardisatie |
| <p>(*) In het kader van zijn accreditatie heeft het laboratorium de toelating alle parameters, behorende tot de groep (van parameters) vermeld in de tweede kolom, te bepalen voor alle producten, behorende tot de groep (van producten) vermeld in de eerste kolom. Deze toelating wordt gegeven op voorwaarde dat een aangepaste validatie wordt uitgevoerd overeenkomstig het globaal validatie concept, zoals vastgelegd in het kwaliteitssysteem van het laboratorium (en overeenkomstig het document BELAC 2-104 "Criteria waaraan de geaccrediteerde laboratoria moeten beantwoorden die een flexibele scope aanvragen voor analyse van residu's van pesticiden in plantaardige producten"). Het laboratorium houdt, ten behoeve van elke aanvrager, een geactualiseerde lijst bij van de specifieke beproevingen en producten die onder de voornoemde groepen vallen. Opvraagbaar via E-mail: info@lovap.be</p> <p>(**) gevalideerd volgens beschikking "2002/657/EG" en de actuele versie van het SANTE document.</p> | | | | |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE | |
|---|-------------------------------------|---|-----------------|--------------|-----------------------------|
| Waters en adsorptiepatronen | | | | | |
| SM00155 | Afvalwater en grondwater | minerale olie | GC-FID | WAC/IV/B/025 | |
| SM00489 | Drink-, oppervlakte-, en afvalwater | vluchtige organische chloorkoolwaterstoffen, mono-aromatische KWS | GC-MS/headspace | WAC/IV/A/016 | |
| | | 1,1-dichlooretheen | | | Isopropylbenzeen |
| | | Dichloormethaan | | | 1,2,3-trichloorpropaan |
| | | 1,2-dichlooretheen, trans | | | 2-chloortolueen |
| | | 1,1-dichloorethaan | | | 3-chloortolueen |
| | | 1,2-dichlooretheen, cis | | | 4-chloortolueen |
| | | Chloroform | | | 1,3-dichloorbenzeen |
| | | 1,1,1-trichloorethaan | | | 1,4-dichloorbenzeen |
| | | 1,2-dichloorethaan | | | 1,2-dichloorbenzeen |
| | | koolstoftetrachloride | | | 1,3,5-trichloorbenzeen |
| | | Trichlooretheen | | | 1,2,4-trichloorbenzeen |
| | | Broomdichloormethaan | | | 1,2,3-trichloorbenzeen |
| | | 1,1,2-trichloorethaan | | | Naftaleen |
| | | Dibroomchloormethaan | | | 1,3-dichloorpropaan |
| | | Tetrachlooretheen | | | 1,2-dibroommethaan |
| | | Chloorbenzeen | | | 1,1,1,2-tetrachloorethaan |
| | | Chloorethaan | | | vinylchloride |
| | | Trichloorfluormethaan | | | broombenzeen |
| | | 2,2-dichloorpropaan | | | n-propylbenzeen |
| | | Broomchloormethaan | | | 1,3,5-trimethylbenzeen |
| | | 1,1-dichloorpropeen | | | tert-butylbenzeen |
| | | 1,2-dichloorpropaan | | | 1,2,4-trimethylbenzeen |
| | | Dibroommethaan | | | sec-butylbenzeen |
| | | 1,3-dichloorpropeen, cis | | | p-isopropyltolueen |
| | | 1,3-dichloorpropeen, trans | | | n-butylbenzeen |
| | | Styreen | | | 1,2-dibroom-3-chloorpropaan |
| | | bromoform | | | Hexachloorbutadieen |
| 1,1,2,2-tetrachloorethaan | 1,2,3-trimethylbenzeen | | | | |
| BETXs (benzeen, ethylbenzeen, toluen, m + p-xyleen, o-xyleen) | | | | | |
| MTBE (methyl-tert.butylether) | | | | | |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE | |
|-----------|--|---|--------------|---|------------------------|
| SM00723 | Drinkwater | Poly-aromatische koolwaterstoffen (PAK) (Borneff) | HPLC-FLD | Eigen methode | |
| | | benzo(a)pyreen | | | indeno(1,2,3-cd)pyreen |
| | | benzo(b)fluorantheen | | | benzo(ghi)peryleen |
| | | benzo(k)fluorantheen | | | |
| SM01254 | Drinkwater | Acrylamide | LC-MSMS | Eigen methode met interne standaardisatie | |
| SM01369 | Op carboxen 1000 geadsorbeerde moleculen | Alcoholen en ketonen | GC-MS | LUC/IV/007 LUC/IV/009 | |
| SM01232 | Op actief kool geadsorbeerde moleculen | Aromatische KWS, alifatische halogeen KWS, paraffinische acrylaten, esters, ethers, KWS | GC-MS | LUC/IV/001-002-004-006-008 | |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|-----------------------|----------------------------|---|---|----------------------------|
| BEMONSTERINGEN | | | | |
| SM00556 | Afvalwater | Debietmeting | met alle types van meetschotten | WAC/I/A/004 WAC/I/A/012 |
| SM00560 | Afval- en oppervlaktewater | Proportionele bemonstering | (tijdsgebonden) | WAC/I/A/004 |
| SM00561 | Afvalwater | Proportionele bemonstering | (debietsgebonden – ultrasoon debietmeter of borrelbuisprincipe) | WAC/I/A/004 WAC/I/A/012 |
| SM00562 | Grondwater | Staalname | (peilbuizen) | CMA/1/A.2 WAC/I/A/005 |
| SM01200 | Gasemissies | Volumedebiet en gassnelheid met pitotbuis | drukverschil mbv pitotbuis | LUC/0/004 |
| | | Meting van rookgastemperatuur | thermokoppel | LUC/0/002 |
| SM01201 | Gasemissies | Stofbemonstering en analyse | gravimetrische methode | LUC/I/001 LUC/0/005 |
| SM01203 | Gasemissies | Waterdampgehalte in afgassen | condensatie/adsorptie met silicagel | LUC/0/003 |
| SM01204 | Gasemissies | Gasvormig anorganisch HF | aanzuiging met verwarmde sonde in het gaskanaal en absorptie van gasvormig anorganisch HF in NaOH 0,1 N | LUC/III/006 |
| SM01205 | Gasemissies | Gasvormig anorganisch HCl | aanzuiging met verwarmde sonde in het gaskanaal en absorptie van gasvormig anorganisch HCl in water | LUC/III/0001 |
| SM01366 | Gasemissies | Gasvormig SO _x | aanzuiging met specifieke sonde en absorptie in H ₂ O ₂ | LUC/III/008 |
| SM01207 | Gasemissies | Monitoring van zuurstof, CO ₂ , CO, SO ₂ en NO _x | O ₂ : paramagnetisme CO, CO ₂ , SO ₂ : IR NO _x : chemoluminescentie | LUC/II/001 |
| SM01208 | Gasemissies | Totaal gehalte aan organische koolstof | FID detectie | LUC/II/001 |
| SM01233 | Gasemissies | Bemonstering van organische componenten met adsorptiepatronen | aanzuiging op actief kool/carboxen 1000 | LUC/IV/000 |

| TEST-CODE | MATRIX | GEMETEN EIGENSCHAP | MEETPRINCIPE | METHODE |
|--|------------------------------------|--------------------|---------------------------------|----------------------------|
| EXTERNE METINGEN (<i>in situ</i>) | | | | |
| SM00147 | Afval-, grond- en oppervlaktewater | Temperatuur | | WAC/I/A/011 |
| SM00149 | Afval-, grond- en oppervlaktewater | Opgeloste zuurstof | Chemiluminescentie | WAC/I/A/011 CMA/2/I/A.7 |
| SM00690 | Afval-, grond- en oppervlaktewater | Geleidbaarheid | Conductometrische doorstroomcel | WAC/I/A/011 CMA/2/I/A.2 |
| SM01196 | Afval-, grond- en oppervlaktewater | pH | Potentiometrie | WAC/I/A/011 CMA/2/I/A.1 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|-----------------------------------|---------------------------------|---|-----------------------|--|
| MICROBIOLOGICAL PARAMETERS | | | | |
| Food and/or feed | | | | |
| SM00132 | Food | Anaerobic plate count at 37 °C | Enumeration | SP-VG M005 |
| SM00413 | Food and feed, swabs | Aerobic mesophilic plate count at 30 °C | Enumeration | ISO 4833 -1 |
| SM00417 | Food | Coagulase positive staphylococci | Enumeration | ISO 6888-1 |
| SM01574 | Food and feed, swabs | Enterobacteriaceae at 37 °C | Enumeration | AFNOR BRD 07/24-11/13 |
| SM00415 | Food | Coliforms at 30 °C | Enumeration | ISO 4832 |
| SM00416 | Food | Thermotolerant coliforms at 44 °C | Enumeration | NF V08-060 |
| SM00386 | Food | Bacillus cereus at 30 °C | Enumeration | ISO 7932 |
| SM00404 | Food | Beta-glucuronidase positive Escherichia coli | Enumeration | ISO 16649-2 |
| SM00407 | Food and feed | Clostridium perfringens | Enumeration | ISO 7937 |
| SM00418 | Food | Fungi and Yeasts at 25 °C | Enumeration | ISO 21527-1 and ISO21527-2 |
| SM00699 | Food and feed | Sulfite reducing anaerobes | Enumeration | ISO 15213 |
| SM00405 | Food | Lactic acid bacteria | Enumeration | ISO 15214 |
| SM00142 | Food | Enterococci | Enumeration | Derived from NEN 6817 |
| SM00406 | Food | Enumeration of Listeria monocytogenes | Enumeration | AFNOR BRD-07/05-09/01 |
| SM00977 | Meat and meat products | Campylobacter | Enumeration | Microval MV2008LR12 |
| SM00199 | Yogurt | Lactobacillus bulgaricus and Streptococcus thermophilus | Enumeration | ISO 7889 |
| SM00390 | Yogurt | Presumptive Bifidobacterium | Enumeration | ISO 29981 |
| SM00419 | Food and feed, swabs | Salmonella | Detection | AFNOR BRD 07/11-12/05 Rapid Salmonella short protocol |
| SM01573 | Food | Detection of Listeria and Listeria monocytogenes | Detection | AFNOR BRD-07/4-09/98 |
| SM00408 | Swabs | | | |
| SM01262 | Fish, crustaceans and shellfish | Potentially enteropathogenic Vibrio parahaemolyticus | Detection | ISO 21872 |
| SM00813 | Kidneys | Detection of residues of substances with a growth inhibitory effect | Agar diffusion | Official method MB 1995/06/19 (New Belgian Kidney Test) |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|--------------------------------|----------------|---|---------------------------------------|--|
| Waters | | | | |
| SM00400 | Drinking water | Total plate count at 22 °C and at 37 °C | Enumeration | ISO 6222 WAC/V/A/001 |
| SM00047 | Drinking water | Coliforms and Escherichia coli | Enumeration after membrane filtration | ISO 9308-1 WAC/V/A/002 |
| SM00403 | Drinking water | Enterococci | Enumeration after membrane filtration | ISO 7899-2 WAC/V/A/003 |
| SM00402 | Drinking water | Pseudomonas aeruginosa | Enumeration after membrane filtration | ISO 16266 WAC/V/A/006 |
| SM01575 | Bottled water | | | AFNOR BRD 07/21-04/12 WAC/V/A/006 |
| SM00380 | Drinking water | Clostridium perfringens | Enumeration after membrane filtration | ISO14189 WAC/V/A/007 |
| SM00131 | Drinking water | Salmonella | Detection after membrane filtration | ISO 19250 WAC/V/A/004 |
| ELISA and Real Time PCR | | | | |
| SM00116 | Food | Detection of whey protein and casein protein | ELISA | Method based on Veratox kit (Neogen) |
| SM00182 | Food | Detection of soy protein | ELISA | Method based on Veratox kit (Neogen) |
| SM00794 | Food | Detection of gluten protein | ELISA | Method based on Veratox kit (Neogen) |
| SM01561 | Food | Detection of pork DNA | RT-PCR | Method based on kit from life technologies |
| SM01562 | Food | Detection of beef DNA | RT-PCR | Method based on kit from life technologies |
| SM01563 | Food | Detection of horse DNA | RT-PCR | Method based on kit from life technologies |
| SM04051 | Food | GMO screening (p34, p 35, tNOS marker elements) | RT-PCR | Method based on kit from life technologies |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|-----------------------------|---|---------------------------------|-------------------------|--|
| INORGANIC PARAMETERS | | | | |
| Food and/or feed | | | | |
| SM00449 | Food and feed | Moisture (dry matter) | Gravimetry | Based on ISO 1442 |
| SM00106 | Sugared food | Moisture (dry matter) | Gravimetry - vacuum | Based on ISO 1742 |
| SM00579 | Food and feed | Nitrogen (protein) | Kjeldahl method | ISO 1871 |
| SM00022 | Meat and meat products | Nitrogen (protein) | Kjeldahl method | ISO/R 937 |
| SM00764 | Food and feed | Total ash | Gravimetry | Based on ISO 936 |
| SM00586 | Food and feed | Reducing sugars after inversion | Titrimetry | Based on EG/152/2009 |
| SM01030 | Food and feed | Total fat | Gravimetry (manual) | Based on ISO 1443 |
| SM01031 | Food and feed | Total fat | Gravimetry (automated) | Based on ISO 1443 |
| SM00122 | Food | Total dietary fiber | Gravimetry | Based on A.S.L.00.00.18 |
| SM00684 | Food | Starch | Enzymatic determination | Based on kit Boehringer Mannheim (Starch, UV method) |
| SM00059 | Food | Sulfite | Enzymatic determination | Method based on Boehringer Mannheim (Sulfite, UV method) |
| SM00333 | Food | Citric acid | Enzymatic determination | Based on kit Boehringer Mannheim (Citric acid, UV method) |
| SM00353 | Food | Ascorbic acid | Enzymatic determination | Method based on Boehringer Mannheim (L-Ascorbic acid, UV method) |
| SM00123 | Food | Ash insoluble in HCl | Gravimetry | Based on ISO 763 |
| SM00109 | Food | Free fatty acids | Titrimetry | Based on Regulation (EU) 2016/1227 |
| SM00110 | Food | Peroxide value | Titrimetry | Based on Regulation (EEG) 2568/91 |
| SM00192 | Food | Density | Pyknometry | Based on ISO 2172 |
| SM00744 | Food with the exception of meat and meat products | pH | Potentiometry | Based on ISO 1842 |
| SM00009 | Meat and meat products | Salt | Volhard method | ISO 1841 |
| SM00012 | Meat and meat products | pH | Potentiometry | Based on ISO 2917 |
| SM00023 | Meat and meat products | Free fat | Gravimetry | ISO 1444 |
| SM00026 | Meat and meat products | Hydroxyproline | Spectrophotometry | ISO 3496 |
| SM00024 | Meat and meat products | Nitrite | Spectrophotometry | ISO 2918 |
| SM00025 | Meat and meat products | Nitrate | Spectrophotometry | ISO 3091 |
| SM00043 | Meat and meat products | Total phosphorus | Spectrophotometry | Based on NEN ISO 13730 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|-----------|---|---------------------------------------|-----------------------------|---|
| SM00066 | Meat and meat products | Glutaminic acid | Enzymatic determination | Method based on Boehringer Mannheim (L-glutaminic acid, colorimetric method) |
| SM00796 | Fish | Total volatile basic nitrogen (TVB-N) | Destillation and titrimetry | Based on Regulation (EG) 2074/2005 |
| SM00010 | Bread and other bakery products | Table salt on dry matter | Titrimetry and gravimetry | Royal Decree of 29 October 1987 establishing the valid reference methods for the decomposition of products based on flour |
| SM00103 | Bread and other bakery products | Dry matter | Gravimetry | Royal Decree of 29 October 1987 establishing the valid reference methods for the decomposition of products based on flour |
| SM00088 | Products based on fruits and vegetables | Total acidity | Titrimetry | Based on AOAC 942.15 |
| SM00119 | Products based on fruits and vegetables | Brix | Refractometry | Based on AOAC 932.14 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|---------------|---|--|---|--------------------------------------|
| Waters | | | | |
| SM00013 | Drinking water, waste water, ground water and surface water | Conductivity | Conductometry | ISO 7888 WAC/III/A/004 |
| SM00053 | Drinking water, waste water, ground water and surface water | pH | Potentiometry | WAC/III/A/005 |
| SM00148 | Drinking water, waste water, ground water and surface water | Dry residue | Gravimetry | WAC/III/A/001 |
| SM00042 | Drinking water, ground water and surface water | Determination of alkalinity and buffer capacity | Titrimetry | ISO 9963-1 WAC/III/A/006 |
| SM00041 | Drinking water | Total hardness | Titrimetry | ISO 6059 |
| SM01576 | Drinking water, waste water, ground water and surface water | Total hardness | calculation of total hardness from Ca and Mg after ICP-MS | WAC/III/A/009 |
| SM00360 | Drinking water, ground water and surface water | Dissolved fluoride, chloride, nitrate, sulfate, nitrite and orthophosphate | anion chromatography | NF EN ISO 10304 – 1 WAC/III/C/001 |
| | Waste water | Dissolved chloride, nitrate, sulfate and orthophosphate | | |
| SM01199 | Absorption liquid | HCl | anion chromatography | LUC/III/001 |
| SM00029 | Waste water | Total inorganic bonded fluoride | ion-selective electrode | WAC/III/C/020 |
| SM01222 | Absorption liquid | HF | ion-selective electrode | LUC/III/006 |
| SM01367 | Absorption liquid | SO _x as sulfate | anion chromatography | NF EN ISO 10304-1 LUC/III/008 |
| SM00062 | Drinking water, waste water, ground water and surface water | Nitrite | Spectrophotometry | ISO 6777 WAC/III/C |
| SM00508 | Waste water, ground water and surface water | Ammonium nitrogen (high level) (> 2,0 mg N/l) | Titrimetry after distillation | WAC/III/E/022 |
| SM00634 | Drinking water, waste water, ground water and surface water | Ammonium nitrogen (low level) (≤ 2,0 mg N/l) | Manual spectrometry | ISO 7150 WAC/III/E/020 |
| SM00083 | Waste water and surface water | Total o-phosphate | Manual spectrophotometry with ammonium molybdate | ISO 6878 WAC/III/D |
| SM00052 | Drinking water, ground water and surface water | Oxidizability | Titrimetry | ISO 8467 WAC/III/D/022 |
| SM00152 | Waste water, ground water and surface water | Kjeldahl nitrogen | Digestion and titration | EN 25663 WAC/III/D/030 |
| SM00154 | Waste water, ground water and surface water | Oils and fats (with petroleum ether extractable substances) | Gravimetry | WAC/IV/B/005 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|---------------------------|---|--|---|---|
| SM00163 | Waste water, ground water and surface water | Suspended solids | Gravimetry | NF EN 872 WAC/III/D/002 |
| SM00512 | Waste water, ground water and surface water | Settable solids | Imhoff cone | WAC/III/D/001 |
| SM00511 | Waste water, ground water and surface water | Chemical oxygen demand (COD) | Spectrophotometry | ISO 15705 WAC/III/D/020 |
| SM01044 | Waste water | BOD determination after 5 days | Dilution and seeding with suppression of nitrification - electrochemistry | ISO 5815-1 WAC/III/D/010 |
| SM00537 | Waste water, ground water and surface water | Total N | Calculation: sum of Kjeldahl-N, nitrate-N en nitrite-N | WAC/III/D |
| SM00663 | Waste water, ground water and surface water | Dissolved Cr (VI) | Spectrophotometry | WAC/III/C |
| AAS/ICP PARAMETERS | | | | |
| Food and/or feed | | | | |
| SM00446 | Food and feed | Sodium | ashing and ICP-AES | Based on A.S.L.07.00.56 |
| SM01571 | Food and feed | Arsenic, Cadmium, Mercury, Lead, Aluminium, Iron, Copper, Nickel, Zinc | microwave digestion and ICP-MS | In house method |
| SM00074 | Food | Tin | ashing and ICP-OES | In house method |
| Waters | | | | |
| SM01569 | Drinking water, waste water, ground water and surface water | Hg | ICP-MS | WAC/III/B/002 WAC/III/B/011 ISO 17294-01 and 02 |
| SM04599 | Drinking water, waste water, ground water and surface water | Ag, Al, As, B, Ba, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, P, Pb, Sb, Se, Zn | ICP-MS | WAC/III/B/002 WAC/III/B/011 |
| | Drinking water and ground water | Ca, Mg, K, Na | | ISO 17294-01 and 02 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|-----------------------------------|---|---|--|---|
| CHROMATOGRAPHIC PARAMETERS | | | | |
| Food and/or feed | | | | |
| SM00002 | Food | Benzoic acid and sorbic acid | HPLC-UV | Based on A.S.L. 00.00-9 |
| SM00716 | Food | Fatty acid spectrum | Fat extraction, methylation and GC-FID detection | In house method |
| SM01410 | Food | Glucose, Fructose, Sucrose, Maltose, Lactose, Sorbitol, Maltitol, Xylitol | LC-MSMS | In house method |
| SM00230 | Food | Water soluble vitamins: Vitamin B1 (thiamine), Vitamin B2 (riboflavin), Vitamin B3 (niacin), Vitamin B5 (pantothenic acid), Vitamin B6 (pyridoxine), Vitamin H (biotin) | LC-MSMS | In house method with internal standardization |
| SM00240 | Food | Fat soluble vitamins: Vitamin A (retinol), Vitamin D2 (ergocalciferol), Vitamin D3 (cholecalciferol), Vitamin E (alfa-tocopherol) | LC-MSMS | In house method with internal standardization |
| SM00703 | Food | Aspartame, Saccharin, Acesulfam K | HPLC-UV | In house method |
| SM00707 | (Solid and liquid) food | Caffeine | HPLC-UV | In house method |
| SM00712 | Chocolate and chocolate containing products | Theobromine | HPLC-UV | In house method |
| SM00040 | Food | Synthetic water soluble colorants (qualitative) | TLC | Derived from A.S.L. 26.11.03/14 |
| SM00200 | Food | Aflatoxins (G1, G2, B1, B2), Aflatoxin M1, Deoxynivalenol, Ochratoxin A, Fumonisin B1, Fumonisin B2, Toxin T2, Toxin HT2, Zearalenone | LC-MSMS | In house method |
| SM00300 | Food and feed | Aflatoxins (G1, G2, B1, B2) | ELISA-screening | In house method |
| SM00344 | Fruit and vegetables | Bromide and Nitrate | HPLC-IC | NF EN 12014-2 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|--|--|------------------------------|--|---|
| SM00809 | Plant matrices (*) | Residues of pesticides (*) | QuEChERS method with GC-MSMS and LC-MSMS | EN 15662 |
| SM00809 (**) | Food of animal origin: eggs & egg products, meat | Fipronil and Fipronil sulfon | QuEChERS method with GC-MSMS and LC-MSMS | In house method |
| SM00802 | Fruit and vegetables | Dithiocarbamates | GC-MS headspace | EN 12396-02 |
| SM00941 | Pineapple | Residues of ethephon | QuPPE method with LC-MSMS | In house method |
| SM01400 | Food | Acrylamide | LC-MSMS | In house method with internal standardization |
| <p>(*) In the context of its accreditation, the laboratory has the permission to determine all parameters belonging to the group (of parameters) mentioned in the second column, for all products belonging to the group (of products) mentioned in the first column. This authorization is granted on the condition that an adapted validation is carried out in accordance with the global validation concept, as laid down in the quality system of the laboratory (and in accordance with the document BELAC 2-104 "Criteria that accredited laboratories must meet that request a flexible scope for analysis of pesticides residues in plant products"). For each applicant, the laboratory keeps an up-to-date list of the specific tests and products that belong to the aforementioned groups. Can be requested via E-mail: info@lovap.be</p> <p>(**) validated according to decision "2002/657/EC" and the current version of the SANTE document.</p> | | | | |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD | |
|--|---|---|-----------------------|--------------|-----------------------------|
| Waters and adsorption tubes | | | | | |
| SM00155 | Waste water and ground water | Mineral oil | GC-FID | WAC/IV/B/025 | |
| SM00489 | Drinking water, surface water and waste water | Volatile organic chlorinated hydrocarbons, mono aromatic hydrocarbons | GC-MS/headspace | WAC/IV/A/016 | |
| | | 1,1-dichloroethylene | | | Isopropylbenzene |
| | | Dichloromethane | | | 1,2,3-trichloropropane |
| | | 1,2-dichloroethylene, trans | | | 2-chlorotoluene |
| | | 1,1-dichloroethane | | | 3-chlorotoluene |
| | | 1,2-dichloroethylene, cis | | | 4-chlorotoluene |
| | | Chloroform | | | 1,3-dichlorobenzene |
| | | 1,1,1-trichloroethane | | | 1,4-dichlorobenzene |
| | | 1,2-dichloroethane | | | 1,2-dichlorobenzene |
| | | Carbon tetrachloride | | | 1,3,5-trichlorobenzene |
| | | Trichloroethylene | | | 1,2,4-trichlorobenzene |
| | | Bromodichloromethane | | | 1,2,3-trichlorobenzene |
| | | 1,1,2-trichloroethane | | | Naphthalene |
| | | Dibromochloromethane | | | 1,3-dichloropropane |
| | | Tetrachloroethylene | | | 1,2-dibromoethane |
| | | Chlorobenzene | | | 1,1,1,2-tetrachloroethane |
| | | Chloroethane | | | Vinylchloride |
| | | Trichlorofluoromethane | | | Bromobenzene |
| | | 2,2-dichloropropane | | | n-propylbenzene |
| | | Bromochloromethane | | | 1,3,5-trimethylbenzene |
| | | 1,1-dichloropropene | | | tert-butylbenzene |
| | | 1,2-dichloropropane | | | 1,2,4-trimethylbenzene |
| | | Dibromomethane | | | sec-butylbenzene |
| | | 1,3-dichloropropene, cis | | | p-isopropyltoluene |
| | | 1,3-dichloropropene, trans | | | n-butylbenzene |
| | | Styrene | | | 1,2-dibromo-3-chloropropane |
| Bromoform | Hexachlorobutadiene | | | | |
| 1,1,1,2-tetrachloroethane | 1,2,3-trimethylbenzene | | | | |
| BETXs (benzene, ethylbenzene, toluene, m + p-xylene, o-xylene) | | | | | |
| MTBE (methyl-tert.butylether) | | | | | |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD | |
|-----------|--|---|-----------------------|---|------------------------|
| SM00723 | Drinking water | Poly aromatic hydrocarbons (PAH) (Borneff) | HPLC-FLD | In house method | |
| | | benzo(a)pyrene | | | indeno(1,2,3-cd)pyrene |
| | | benzo(b)fluoranthene | | | benzo(ghi)perylene |
| | | benzo(k)fluoranthene | | | |
| SM01254 | Drinking water | Acrylamide | LC-MSMS | In house method with internal standardization | |
| SM01369 | On carboxen 1000 adsorbed molecules | Alcohols and ketons | GC-MS | LUC/IV/007 LUC/IV/009 | |
| SM01232 | On activated carbon adsorbed molecules | Aromatic hydrocarbons, aliphatic halogen hydrocarbons, paraffinic acrylates, esters, ethers, hydrocarbons | GC-MS | LUC/IV/001-002-004-006-008 | |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|-------------------------|-------------------------------|---|---|----------------------------|
| SAMPLING METHODS | | | | |
| SM00556 | Waste water | Flow measurement | with all types of venturi flumes | WAC/I/A/004 WAC/I/A/012 |
| SM00560 | Waste water and surface water | Proportional sampling | (time related) | WAC/I/A/004 |
| SM00561 | Waste water | Proportional sampling | (flow related – ultrasonic flow meter or bubble tube level system) | WAC/I/A/004 WAC/I/A/012 |
| SM00562 | Ground water | Sampling | (monitoring wells) | CMA/1/A.2 WAC/I/A/005 |
| SM01200 | Gas emissions | Volume flow and gas velocity using pitot tube | pressure difference using pitot tube | LUC/0/004 |
| | | Measurement of waste gas temperature | thermocouple | LUC/0/002 |
| SM01201 | Gas emissions | Dust sampling and analysis | gravimetric method | LUC/I/001 LUC/0/005 |
| SM01203 | Gas emissions | Water vapour in waste gases | condensation/adsorption with silicagel | LUC/0/003 |
| SM01204 | Gas emissions | Gaseous inorganic HF | suction with heated probe in the gas channel and absorption of gaseous inorganic HF in NaOH 0,1 N | LUC/III/006 |
| SM01205 | Gas emissions | Gaseous inorganic HCl | suction with heated probe in the gas channel and absorption of gaseous inorganic HCl in water | LUC/III/0001 |
| SM01366 | Gas emissions | Gaseous SO _x | suction with specific probe and absorption in H ₂ O ₂ | LUC/III/008 |
| SM01207 | Gas emissions | Monitoring of oxygen, CO ₂ , CO, SO ₂ and NO _x | O ₂ : paramagnetism CO, CO ₂ , SO ₂ : IR NO _x : chemoluminescence | LUC/II/001 |
| SM01208 | Gas emissions | Total amount of organic carbons | FID detection | LUC/II/001 |
| SM01233 | Gas emissions | Sampling of organic compounds with adsorption tubes | Suction on activated carbon/carboxen 1000 | LUC/IV/000 |

| TEST-CODE | MATRIX | MEASURED PARAMETERS | MEASUREMENT PRINCIPLE | METHOD |
|---|---|---------------------|--------------------------|----------------------------|
| EXTERNAL MEASUREMENTS (<i>in situ</i>) | | | | |
| SM00147 | Waste water, ground water and surface water | Temperature | | WAC/I/A/011 |
| SM00149 | Waste water, ground water and surface water | Dissolved oxygen | Chemiluminescence | WAC/I/A/011 CMA/2/I/A.7 |
| SM00690 | Waste water, ground water and surface water | Conductivity | Conductometric flow cell | WAC/I/A/011 CMA/2/I/A.2 |
| SM01196 | Waste water, ground water and surface water | pH | Potentiometry | WAC/I/A/011 CMA/2/I/A.1 |