



Organisme belge d'Accréditation
Belgische Accreditatieinstelling
Belgische Akkreditierungsstelle
Belgian Accreditation Body

Signatory to EA, ILAC and IAF
Multilateral Agreements

Accreditation Certificate No. 531-CAL

In compliance with the provisions of the Royal Decree of 31 January 2006 setting up BELAC, the Accreditation Board hereby declares, that the calibration laboratory

CHEM-LAB NV
Industriezone "De Arend", 2
8210 ZEDELGEM - Belgium

has the competence to perform the calibrations as described in the annex which is an integral part of the present certificate, in accordance with the requirements of the standard EN ISO/IEC 17025:2005. The present accreditation is the subject of regular surveillance in order to confirm the compliance with the accreditation conditions.

The Chair of the Accreditation Board BELAC,

Nicole MEURÉE-VANLAETHEM

Issue date : **2018-03-06**

Validity date : **2023-03-05**

Original version of this certificate is in Dutch.



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

531-CAL

EN ISO/IEC 17025:2005

Versie/Version/Fassung	5
Uitgiftedatum / Date d'émission / Issue date / Ausgabedatum:	2018-03-06
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Nicole Meurée-Vanlaethem

Voorzitster van het Accreditatiebureau
La Présidente du Bureau d'Accréditation
Chair of the Accreditation Board
Vorsitzende des Akkreditierungsbüro

**De accreditatie werd uitgereikt aan/ L'accréditation est délivrée à/
The accreditation is granted to/ Die akkreditierung wurde erteilt für:**

**Chem-Lab nv
Industriezone "De Arend", 2
8210 ZEDELGEM**

Secrétariat :
Service public fédéral Economie,
P.M.E., Classes moyennes et Energie
Direction générale de la Qualité et de la Sécurité
Division Qualité et Innovation
Bd du Roi Albert II 16
1000 Bruxelles
Website : <http://economie.fgov.be>
Numéro d'entreprise : 0314.595.348

Accréditation BELAC Accreditation

Tel.: +32 2 277 54 34
Fax: +32 2 277 54 41
Internet: <http://belac.fgov.be>
E-mail: Belac@economie.fgov.be

Secretariaat:
Federale Overheidsdienst Economie,
K.M.O., Middenstand en Energie
Algemene Directie Kwaliteit en Veiligheid
Afdeling Kwaliteit en Innovatie
Koning Albert II-laan 16
1000 Brussel
Website: <http://economie.fgov.be>
Ondernemingsnummer: 0314.595.348

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E6-0030

Code	Product subjected to the test	Concentration (bij 20°C)	CMC Calibration and Measurement Capability, expressed as an expanded uncertainty (95 %) (% Relative)
BM001 comment (1)	Anorganic standards in aqueous solution – Monoelements <i>-Anion : Chloride, Bromide, Fluoride, Nitrite, Nitrate, Sulphate, Phosphate</i>	1.000 mg/L to 100.000 mg/L	0,5 % tot 1,0 %
	Anorganic standards in aqueous solution – Multielements: <i>-Anionen : Chloride, Bromide, Fluoride, Nitrite, Nitrate, Sulphate, Phosphate</i> <i>-Kationen : Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Ge, Hf, Hg, Ho, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, Os, P, Pb, Pd, Pr, Pt, Rb, Re, Rh, Ru, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr</i>	1 mg/L tot 10.000 mg/L	1,0%
	Organic standards in organic solvents– Monocomponents: <i>-Volatiles: Dichlorodifluoromethane; Chloromethane; Vinyl Chloride; Bromomethane; Chloroethane; Trichlorofluoromethane; trans-1,2-Dichloroethene; Methylene Chloride; cis-1,2-Dichloroethene; 1,1-Dichloroethane; 1,1-Dichloroethene; 2,2-Dichloropropane; Bromochloromethane; Chloroform; 1,1,1-Trichloroethane; 1,2-Dichloroethane; cis-1,3-Dichloropropene; Benzene; Carbon Tetrachloride; 1,2-Dichloropropane; Trichloroethene; Dibromomethane; Bromodichloromethane; trans-1,3-Dichloropropene; 1,1-Dichloropropene; Toluene; 1,1,2-Trichloroethane; 1,3-Dichloropropane; Dibromochloromethane; 1,2-Dibromoethane; Tetrachloroethene; Chlorobenzene; 1,1,1,2-Tetrachloroethane; Ethylbenzene; m-Xylene; p-Xylene; Bromoform; Styrene; o-Xylene; 1,1,2,2-Tetrachloroethane; 1,2,3-Trichloropropane; Isopropylbenzene; Bromobenzene; n-Propylbenzene; 2-Chlorotoluene; 4-Chlorotoluene; 1,3,5-Trimethylbenzene; tert-Butylbenzene; 1,2,4-Trimethylbenzene; 1,3-Dichlorobenzene; sec-Butylbenzene; 1,4-Dichlorobenzene; p-Isopropyltoluene; 1,2-Dichlorobenzene; n-Butylbenzene; 1,2-Dibromo-3-Chloropropane; 1,2,4-Trichlorobenzene; Naphthalene; Hexachlorobutadiene; 1,2,3-Trichlorobenzene</i> <i>-Phenols: phenol; 2-chlorophenol; 2-methylphenol (o-cresol); m-Cresol; p-Cresol; 2-nitrophenol; 2,4-dimethylphenol; 2,4-dichlorophenol; 2,6-Dichlorophenol; 4-chloro-3-methylphenol; 2,4,5-Trichlorophenol; 2,4,6-trichlorophenol; 2,4-dinitrophenol; 4-nitrophenol; 2,3,5,6-Tetrachlorophenol; 2,3,4,5-Tetrachlorophenol; 2,3,4,6-Tetrachlorophenol; 2-methyl-4,6-dinitrophenol; pentachlorophenol; Dinoseb; Dinex</i> <i>-PAHs : Naphthalene; Acenaphthylene; Acenaphthene; Fluorene; Phenanthrene; Anthracene; Fluoranthene; Pyrene; Benz[a]anthracene; Chrysene; Benzo[b]fluoranthene; Benzo[k]fluoranthene; Benzo[a]pyrene; Indeno[1,2,3,c,d]pyrene; Dibenz[a,h]anthracene; Benzo[g,h,i]perylene</i>	100 mg/L tot 200.000 mg/L	1,0 % tot 4,0 %

Code	Product subjected to the test	Concentration (bij 20°C)	CMC Calibration and Measurement Capability, expressed as an expanded uncertainty (95 %) (% Relative)
BM001 comment (1)	<p>-Pesticides : Etridiazole; Chlorneb; alfa-HCH; beta-HCH; Simazine; Atrazine; delta.HCH; Chlorothalonil; Lindane; Alachlor; Heptachlor; Aldrin; DCPA (Dacthal); Heptachlor epoxide; cis-Chlordane; Endosulfan I; Dichlorphos; EPTC; Mevinphos; Butylate; Vernolate; Pebulate; Tebuthiuron; Molinate; Propachlor; Cycloate; Ethoprophos; Chlorpropham; Trifluralin; Atraton; Prometon; Atrazine; Propazine; Propyzamide; Methyl Paraoxon; Turbacil; Metribuzin; Alachlor; Simetryn; Ametryn; Prometryn; Terbutryn; Metolachlor; Chlorpyrifos; Bromacil; Triademefon; Cyanazine; Diphenamid; MGK 275 (Isomer 1); MGK 275 (Isomer 2); Stirifos (Tetrachlorvinphos); Butachlor; Propanamide; Tricyclazole; Norflurazon; Hexazinone; Fenarimol; Fluridone; trans-Chlordane; trans-Nonachlor; 4,4'-DDE; Dieldrin; Endrin; Chlorobenzilate; Endosulfan II; 4,4'-DDD; Endrin Aldehyde; Endosulfan sulfate; 4,4'-DDT; Methoxychlor; cis-Permethrine; trans-Permethrin</p>	100 mg/L tot 200.000 mg/L	1,0 % tot 4,0 %
	<p>- Polychlorinated Biphenyls (PCBs) : 2,4,4'-Trichlorobiphenyl (PCB 28); 2,2',5,5'-Tetrachlorobiphenyl (PCB 52); 2,2',4,5,5'-Pentachlorobiphenyl (PCB 101); 2,3',4,4',5-Pentachlorobiphenyl (PCB 118); 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138); 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153); 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)</p>	10 mg/L tot 10.000 mg/L	1,0 % tot 4,0 %
	<p>Organic standards in organic solvents – Multicomponents:</p> <p>-Volatiles: Dichlorodifluoromethane; Chloromethane; Vinyl Chloride; Bromomethane; Chloroethane; Trichlorofluoromethane; trans-1,2-Dichloroethene; Methylene Chloride; cis-1,2-Dichloroethene; 1,1-Dichloroethane; 1,1-Dichloroethene; 2,2-Dichloropropane; Bromochloromethane; Chloroform; 1,1,1-Trichloroethane; 1,2-Dichloroethane; cis-1,3-Dichloropropene; Benzene; Carbon Tetrachloride; 1,2-Dichloropropane; Trichloroethene; Dibromomethane; Bromodichloromethane; trans-1,3-Dichloropropene; 1,1-Dichloropropene; Toluene; 1,1,2-Trichloroethane; 1,3-Dichloropropane; Dibromochloromethane; 1,2-Dibromoethane; Tetrachloroethene; Chlorobenzene; 1,1,1,2-Tetrachloroethane; Ethylbenzene; m-Xylene; p-Xylene; Bromoform; Styrene; o-Xylene; 1,1,2,2-Tetrachloroethane; 1,2,3-Trichloropropane; Isopropylbenzene; Bromobenzene; n-Propylbenzene; 2-Chlorotoluene; 4-Chlorotoluene; 1,3,5-Trimethylbenzene; tert-Butylbenzene; 1,2,4-Trimethylbenzene; 1,3-Dichlorobenzene; sec-Butylbenzene; 1,4-Dichlorobenzene; p-Isopropyltoluene; 1,2-Dichlorobenzene; n-Butylbenzene; 1,2-Dibromo-3-Chloropropane; 1,2,4-Trichlorobenzene; Naphthalene; Hexachlorobutadiene; 1,2,3-Trichlorobenzene</p> <p>-Phenols: phenol; 2-chlorophenol; 2-methylphenol (o-cresol); m-Cresol; p-Cresol; 2-nitrophenol; 2,4-dimethylphenol; 2,4-dichlorophenol; 2,6-Dichlorophenol; 4-chloro-3-methylphenol; 2,4,5-Trichlorophenol; 2,4,6-trichlorophenol; 2,4-dinitrophenol; 4-nitrophenol; 2,3,5,6-Tetrachlorophenol; 2,3,4,5-Tetrachlorophenol; 2,3,4,6-Tetrachlorophenol; 2-methyl-4,6-dinitrophenol; pentachlorophenol; Dinoseb; Dinex</p>	1 mg/L tot 2.000 mg/L	1,0 % tot 4,0 %

Code	Product subjected to the test	Concentration (bij 20°C)	CMC Calibration and Measurement Capability, expressed as an expanded uncertainty (95 %) (% Relative)
BM001 comment (1)	<p>-PAHs: Naphthalene; Acenaphthylene; Acenaphthene; Fluorene; Phenanthrene; Anthracene; Fluoranthene; Pyrene; Benz[a]anthracene; Chrysene; Benzo[b]fluoranthene; Benzo[k]fluoranthene; Benzo[a]pyrene; Indeno[1,2,3,c,d]pyrene; Dibenz[a,h]anthracene; Benzo[g,h,i]perylene</p> <p>-Pesticides: Etridiazole; Chlorneb; alfa-HCH; beta-HCH; Simazine; Atrazine; delta.HCH; Chlorothalonil; Lindane; Alachlor; Heptachlor; Aldrin; DCPA (Dacthal); Heptachlor epoxide; cis-Chlordane; Endosulfan I; Dichlorphos; EPTC; Mevinphos; Butylate; Vernolate; Pebulate; Tebutiuron; Molinate; Propachlor; Cycloate; Ethoprophos; Chlorpropham; Trifluralin; Atraton; Prometon; Atrazine; Propazine; Propyzamide; Methyl Paraoxon; Turbacil; Metribuzin; Alachlor; Simetryn; Ametryn; Prometryn; Terbutryn; Metolachlor; Chlorpyrifos; Bromacil; Triademefon; Cyanazine; Diphenamid; MGK 275 (Isomer 1); MGK 275 (Isomer 2); Stirifos (Tetrachlorvinphos); Butachlor; Propanamide; Triacyclazole; Norflurazon; Hexazinone; Fenarimol; Fluridone; trans-Chlordane; trans-Nonachlor; 4,4'-DDE; Dieldrin; Endrin; Chlorobenzilate; Endosulfan II; 4,4'-DDD; Endrin Aldehyde; Endosulfan sulfate; 4,4'-DDT; Methoxychlor; cis-Permethrine; trans-Permethrin</p> <p>- Polychlorinated Biphenyls (PCBs): 2,4,4'-Trichlorobiphenyl (PCB 28); 2,2',5,5'-Tetrachlorobiphenyl (PCB 52); 2,2',4,5,5'-Pentachlorobiphenyl (PCB 101); 2,3',4,4',5-Pentachlorobiphenyl (PCB 118); 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138); 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153); 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)</p>	<p>1 mg/L tot 2.000 mg/L</p> <p>10 mg/L tot 10.000 mg/L</p>	<p>1,0 % tot 4,0 %</p> <p>1,0 % tot 4,0 %</p>
Code	Product subjected to the test	Mass fraction	CMC Calibration and Measurement Capability, expressed as an expanded uncertainty (95 %) (% Relative)
BM006 comment (2)	<p>Anorganic standards in aqueous solution – Monoelements:</p> <p>-Cations: Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Hg, Ho, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, Os, P, Pb, Pd, Pr, Pt, Rb, Re, Rh, Ru, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr</p>	<p>1.000 µg/g tot 10.000 µg/g</p>	<p>0,2 % tot 1,0 %</p>

Comments:

(1) Results and their measurement uncertainties are only valid on the volumetric/gravimetric value of the batch solution and not on the individual bottles (or ampules) produced from this batch solution.

(2) Results and their measurement uncertainties are only valid on the analytical value of the batch solution and not on the individual bottles (or ampules) produced from this batch solution.