

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 353**

of **BICON Laboratories B.V.**

This annex is valid from: **16-11-2022** to **01-08-2024**

Replaces annex dated: **09-06-2021**

Location(s) where activities are performed under accreditation

Head Office

Waterdijk 3A
5705 CW
Helmond
The Netherlands

Location	Abbreviation/ location code
Waterdijk 3A 5705 CW Helmond The Netherlands	HE
Mobile location	MoLo

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.E	Electromagnetic Compatibility (EMC) - Emission			
EMC.E.02	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Conducted Emissions Voltage method (AMN) 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo
EMC.E.03		Conducted Emissions Voltage method (LISN) 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo
EMC.E.04		Conducted Emissions Voltage method (Voltage probe) 9 kHz - 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.E.05	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Conducted Emissions Current method (Current probe) 9 kHz - 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo
EMC.E.06		Conducted Emissions Power disturbance method (Absorbing clamp) 30 MHz – 300 MHz	IS Measuring conducted and radiated emissions EN55016-2-2, CISPR 16-2-2, EN 55014-1, CISPR 14-1, EN 55015	HE
EMC.E.07		Conducted Emissions Voltage method (Terminal disturbance) 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo
EMC.E.09		Conducted Emissions Discontinuous disturbance 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.E.11	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Conducted Emissions On power leads 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC ,97/24/EC	HE, MoLo
EMC.E.13		Radiated Emissions 30 MHz – 40 GHz	IS Measuring conducted and radiated emissions EN55012, CISPR 12, EN55025, CISPR 25 UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo
EMC.E.14		Radiated Emissions Anechoic Chamber Method (ACM) 30MHz – 40 GHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32	HE
EMC.E.15		Radiated Emissions Semi Anechoic Chamber Method (SACM) 30MHz – 40 GHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.E.18	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Radiated Emissions Large loop method 9 kHz - 30 MHz	IS Measuring conducted and radiated emissions EN 55016-2-3, EN 55011, CISPR 11, EN 55015	HE
EMC.E.20		Radiated Emissions 60 cm loop method 9 kHz - 30MHz	IS Measuring conducted and radiated emissions EN55011, CISPR 11, EN55016-1-4	HE
EMC.E.21		Radiated Emissions Elektric field 30MHz – 40 GHz	IS Measuring conducted and radiated emissions EN 55016-2-1, CISPR 16-2-1, EN 55011, CISPR 11, EN55012, CISPR 12, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, EN55025, CISPR 25, EN 55032, CISPR 32, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE, MoLo
EMC.E.22		Radiated Emissions magnetic field 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions EN55011, CISPR 11, EN55016-1-4	HE
EMC.E.23		Spurious Emissions 9 kHz – 40 GHz	IS Measuring conducted and radiated emissions EN55011, CISPR 11, EN55016-1-4	HE
EMC.E.24		Spurious Emissions Transmitter 9 kHz – 40 GHz	IS Measuring conducted and radiated emissions EN55011, CISPR 11, EN55016-1-4	HE

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.E.26	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Harmonic Current Emissions (Up to and including 16A per phase) 3 phase	IS Measuring mains disturbances caused by current harmonics and voltage flickering EN IEC 61000-3-2, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE
EMC.E.29		Harmonic Current Emissions (> 16A per phase) 3 phase remark: not an additional activity	IS Measuring mains disturbances caused by current harmonics and voltage flickering EN IEC 61000-3-12, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE
EMC.E.27		Voltage changes, voltage fluctuations and flicker Emissions (Up to and including 16A per phase) 3 phase	IS Measuring mains disturbances caused by current harmonics and voltage flickering EN IEC 61000-3-3, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE
EMC.E.30		Voltage changes, voltage fluctuations and flicker Emissions (> 16A per phase) 3 phase remark: not an additional activity	IS Measuring mains disturbances caused by current harmonics and voltage flickering EN IEC 61000-3-11, UN ECE Regulation 10, 2004/104/EC, 97/24/EC	HE

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No.	Material or product	Type of activity ¹	Internal reference number	Location
Electromagnetic Compatibility (EMC) - Emission - FCC				
EMC.E.02	Electrical and electronic equipment, unintentional radiators	Conducted Emissions Voltage method (AMN) 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions CFR 47 FCC part15, CFR 47 FCC part18, ANSI C63.4 (2014) & MP-5 (1986)	HE
EMC.E.03		Conducted Emissions Voltage method (LISN) 9 kHz – 30 MHz	IS Measuring conducted and radiated emissions CFR 47 FCC part15, CFR 47 FCC part18, ANSI C63.4 (2014) & MP-5 (1986)	HE
EMC.E.14		Radiated Emissions Anechoic Chamber Method (ACM) 30 MHz – 40 GHz	IS Measuring conducted and radiated emissions CFR 47 FCC part15, CFR 47 FCC part18, ANSI C63.4 (2014) & MP-5 (1986)	HE
EMC.E.15		Radiated Emissions Semi Anechoic Chamber Method (SACM) 30 MHz – 40 GHz	IS Measuring conducted and radiated emissions CFR 47 FCC part15, CFR 47 FCC part18, ANSI C63.4 (2014) & MP-5 (1986)	HE
EMC.I	Electromagnetic Compatibility (EMC) – Immunity / susceptibility			
EMC.I.01	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Conducted RF Immunity Electromagnetic 30 Vrms 150 kHz to 230 MHz	IS Conducted Susceptibility testing for continuous disturbances EN-IEC 61000-4-6	HE
EMC.I.02		Conducted RF Immunity Bulk Current Injection method Up to 200mA 150 kHz – 230 MHz	IS Conducted Susceptibility testing for continuous disturbances 2004/104/EC, 97/24/EC, ECE Regulation 10	HE, MoLo

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.I.07	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Immunity to conducted disturbances Induced by radio-frequency fields Up to 30 Vrms 150 kHz – 230 MHz	IS Conducted Susceptibility testing for continuous disturbances 2004/104/EC, 97/24/EC, ECE Regulation 10	HE
EMC.I.12		Radiated Immunity Electric Field 20 MHz – 2.7 GHz Up to 30V/m	IS Radiated Susceptibility testing EN-IEC 61000-4-3, 2004/104/EC, 97/24/EC, ECE Regulation 10	HE, MoLo
EMC.I.15		Radiated disturbances Immunity 20 MHz – 2.7 GHz Up to 30 V/m	EN-IEC 61000-4-3, 2004/104/EC, 97/24/EC, ECE Regulation 10	HE, MoLo
EMC.I.21		Electrostatic discharge Immunity (ESD) Contact discharge 0 - ±15 kV Air discharge 0 – ±8 kV	IS Conducted Susceptibility testing for discontinuous disturbances EN-IEC 61000-4-2	HE, MoLo
EMC.I.22		Electrical fast transient / burst Immunity (EFT) 3 phase ±4 kV	IS Conducted Susceptibility testing for discontinuous disturbances EN-IEC 61000-4-4, 2004/104/EC, 97/24/EC, ECE Regulation 10	HE, MoLo
EMC.I.23		Surge Immunity 3 phase max 32 A ±4 kV	IS Conducted Susceptibility testing for discontinuous disturbances EN-IEC 61000-4-5, 2004/104/EC, 97/24/EC, ECE Regulation 10	HE, MoLo
EMC.I.24		Power frequency magnetic field Immunity 50/60 Hz 30 A/m	IS Radiated Susceptibility testing for magnetic fields EN-IEC 61000-4-8	HE

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.I.25	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	Pulsed magnetic field Immunity Up to 1000 A/m	IS Radiated Susceptibility testing for magnetic fields EN-IEC 61000-4-9	HE
EMC.I.26		Voltage dips, short interruptions and voltage variations Immunity 3 phase All angles	IS Conducted Susceptibility testing for discontinuous disturbances EN-IEC 61000-4-11	HE
EMC.I.27		Electric transient transmission via lines other than supply lines Immunity ± 4 kV	IS Conducted Susceptibility testing for discontinuous disturbances EN-IEC 61000-4-4, 2004/104/EC, 97/24/EC, ECE Regulation 10	HE, MoLo

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**Product standards containing one or more of the above mentioned test activities are listed below.
 Accreditation is only applicable to the tests mentioned above.**

No.	Material of product	Activity reference number	Generic/Product (group) Standard	Location
EMC.E	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.06, EMC.E.07, EMC.E.09, EMC.E.11, EMC.E.13, EMC.E.14, EMC.E.15, , EMC.E.18, EMC.E.20, EMC.E.21, EMC.E.22, EMC.E.23, EMC.E.24, EMC.E.26, EMC.E.29, EMC.E.27, EMC.E.30	EN 12015, EN 12895, EN 13309, EN-ISO 13766, EN-ISO 13766-1, EN-ISO 14982, EN 50121-3-2, EN 50121-4, EN 50121-5, EN 50130-4, EN 50148, EN 50155, EN 50370-1, EN 50293, EN 50498, EN 55011, CISPR 11, EN 55014-1, CISPR 14-1, EN 55015, CISPR 15, EN 55022, CISPR 22, EN 55032, CISPR 32, EN 55103-1, EN-IEC 60601-1-2, EN-IEC 61000-6-3, EN-IEC 61000-6-4, EN-IEC 61131-2, EN-IEC 61204-3, EN-IEC 61326-1, EN-IEC 61326-3-1, EN-IEC 61800-3, EN-IEC60945, EN-IEC60533, EN300220, EN302291, EN300440, EN 301 489-1, ECE Regulation No. 10, EN 55012, CISPR 12, EN 55025, CISPR 25, EN 15194, 2004/104/EC, 97/24/EC	HE

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EMC.I	Electrical and electronic equipment, Motor vehicles and electronic subassemblies (ESA)	EMC.I.01, EMC.I.02, EMC.I.07, EMC.I.12, EMC.I.15, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.25, EMC.I.26, EMC.I.27	EN 12016, EN 12895, EN 13309, EN-ISO 13766, EN-ISO 13766-1, EN-ISO 14982, EN 50121-3-2, EN 50121-4, EN 50121-5, EN 50130-4, EN 50148, EN 50155, EN 50370-2, EN 50293, EN 50498, EN 55011, CISPR 11, EN 55014-2, CISPR 14-2, EN-IEC 61547, EN 55024, CISPR 24, EN 55035, CISPR 35, EN 55103-2, EN-IEC 60601-1-2, EN-IEC 61000-6-1, EN-IEC 61000-6-2, EN-IEC 61131-2, EN-IEC 61204-3, EN-IEC 61326-1, EN-IEC 61326-3-1, EN-IEC 61800-3, EN-IEC60945, EN-IEC60533, EN 301 489-1, ECE Regulation No. 10, EN 15194, 2004/104/EC, 97/24/EC	HE

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.S.02	Automotive			
	Motor vehicles and electronic subassemblies (ESA)	EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.07, EMC.E.09, EMC.E.11, EMC.E.13, EMC.E.15, EMC.E.26, EMC.E.27, EMC.E.29, EMC.E.30	UN ECE Regulation 10, 2004/104/EC, 97/24/EC, EN 50498, EN 55012, CISPR 12, EN55025, CISPR 25, EN 50498	HE, MoLo
EMC.S.05	FCC (Federal Communications Commission) EMC tests			
	Electrical and electronic equipment Unintentional Radiators	EMC.E.2, EMC.E.3, ,EMC.E.14, EMC.E.15	CFR 47 FCC part15, CFR 47 FCC part18, ANSI C63.4 (2014) & MP-5 (1986)	HE