OIML Member State
Switzerland

OIML Certificate No.
R076/2006-A-CH1-19.04 Rev. 09

OIML-CS CERTIFICATE ISSUED UNDER SCHEME A

Issuing authority

Name	**Federal Institute of Metrology METAS** Conformity Evaluation Body METAS-Cert
Address	Lindenweg 50, 3003 Bern-Wabern, Switzerland
Person responsible	Gulian Couvreur, Head of METAS-Cert

Applicant

Name	**Sartorius Lab Instruments GmbH & Co. KG**
Address	Otto-Brenner-Strasse 20, 37079 Göttingen, Germany

Manufacturer

Name	**Sartorius Scientific Instruments (Beijing) Co., Limited**
Address	Yu An Road No33, Zone B Tianzhu Airport Industrial Zone, Shunyi District, 101 300 Beijing, PR China

Identification of the certified type

Type	**Special and high accuracy balances BC-E, BC-A, BC-Q and variants of BC-E (BSA Series)**
Module	**BC-EA to BC-EH, BC-EK, BC-AA to BC-AH, BC-QA to BC-QE and BC-QG.**

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 76-1, edition 2006

for accuracy class(es) (I), (II)

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The present revision of this certificate is the only valid and replaces all previous revisions.
This document is only valid and reviewable in its electronic form.
Please observe the information given on www.metas.ch/ecert

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Metrological characteristics

Type	**BC-EA** **BC-AA** **BC-QA**	**BC-EB** **BC-AB** **BC-QB**	**BC-EB** **BC-AB**
Accuracy Class	(I)	(I)	(II)
Max	50 g - 320 g	50 g - 220 g	0,1 g - 100 g
e	1 mg - 2 mg	1 mg - 2 mg	1 mg - 2 mg
d	0.1 mg - 2 mg	0.1 mg - 2 mg	0.1 mg - 2 mg
n	≤ 320 000	≤ 220 000	≤ 100 000
Tare-balancing range	until 100% of Max		
Temperature range 1	+17 °C / +27 °C	+17 °C / +27 °C	+10 °C /+30 °C
Temperature range 2 [1)]	+10 °C / +30 °C	+10 °C / +30 °C	+10 °C / +30 °C
Nominal capacity of the load receptor	384 g	264 g	264 g
Initial zero setting + dead load [2)]	≤ 234 g	≤ 214 g	≤ 263 g
Maximum weighing pan size	Ø 90 mm	Ø 90 mm	Ø 90 mm

Type	**BC-EC** **BC-AC** **BC-QC**	**BC-ED** **BC-AD**
Accuracy Class	(I)	(II)
Max	500 g – 1 500 g	1 g - 650 g
e	10 mg - 20 mg	0.01 g – 0.1 g
d	1 mg - 20 mg	0.001 g – 0.1 g
n	≤ 150 000	≤ 65 000
Tare-balancing range	until 100% of Max	
Temperature range 1	+17 °C / +27 °C	+10 °C / +30 °C
Temperature range 2 [1)]	+10 °C / +30 °C	+10 °C / +30 °C
Nominal capacity of the load receptor	1 800 g	780 g
Initial zero setting + dead load [2)]	≤ 1300 g	≤ 779 g
Maximum weighing pan size	Ø 120 mm	Ø 120 mm

Type	**BC-EE** **BC-AE** **BC-QE**	**BC-EF** **BC-AF**
Accuracy Class	(II)	
Max	500 g - 6 200 g	500 g - 6 200 g
e	0.1 g - 1 g	0.1 g - 1 g
d	0.01 g - 1 g	0.01 g - 1 g
n	≤ 62 000	≤ 62 000
Tare-balancing range	until 100% of Max	
Temperature range 1	+10 °C / +30 °C	
Nominal capacity of the load receptor	7 440 g	7 440 g
Initial zero setting + dead load [2)]	6 940 g	6 940 g
Maximum weighing pan size	180 mm x 180 mm	Ø 180 mm

Type	**BC-EG** **BC-AG** **BC-QG**	**BC-EH** **BC-AH**
Accuracy Class	(II)	
Max	5 000 g - 12 200 g	5 000 g - 12 200 g
e	1 g	1 g
d	0.1 g - 1 g	0.1 g - 1 g
n	≤ 12 200	≤ 12 200
Tare-balancing range	until 100% of Max	
Temperature range	+10 °C / +30 °C	
Nominal capacity of the load receptor	14 640 g	14 640 g
Initial zero setting + dead load [2)]	≤ 9 640 g	≤ 9 640 g
Maximum weighing pan size	180 mm x 180 mm	Ø 180 mm

Type	**BC-EK**	**BC-QD**
Accuracy Class	(I)	(II)
Max	50 g – 95 g	1 g – 620 g
e	1 mg	0.01 g – 0.1 g
d	0.01 mg - 1 mg	0.001 g – 0.1 g
n	≤ 95 000	≤ 62 000
Tare-balancing range	until 100% of Max	
Temperature range 1	+17 °C / +27 °C	+10 °C / +30 °C
Temperature range 2 [1)]	+10 °C / +30 °C	+10 °C / +30 °C
Nominal capacity of the load receptor	114 g	744 g
Initial zero setting + dead load [2)]	≤ 64 g	≤ 743 g
Maximum weighing pan size	Ø 90 mm	Ø 120 mm

[1)] Only for weighing instruments with incorporated span adjustment device being automatically released.

[2)] The sum of Max, initial zero setting range and dead load shall not exceed the nominal load of the load receptor.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation reports:

No.	***Date***	***Including pages***
6030-01225 Rev 09	2025-07-02	29

The technical documentation relating to the identified type is contained in documentation file:

Name	***Date***	***Including pages***
R076_2006-A-CH1-19.04-09_LERD_V01	2025-07-02	10

OIML Certificate History:

Revision No.	Date	Description of the modification
00	2019-09-24	First issue
01	2020-09-21	Extension to the types BC-EA to BC-EH, BC-AA to BC-AH
02	2020-11-03	Editorial changes
03	2021-04-15	Rebranding, new design
04	2021-08-12	Extension to the type BC-EK, version of software
05	2022-06-16	Version of software added, reinforcement of power connector (only in documentation)
06	2024-06-24	Extension to the types BC-QA, BC-QB, BC-QC, BC-QD, BC-QE, BC-QG. Optimized weighing system of the types BC-AA, BC-AB, BC-EA, BC-EB.
07	2024-07-18	Editorial changes
08	2024-10-30	Change of the socket for power supply from SMD (Surface Mounted Device) to THT (Through Hole Technology). Therefore, modification of the mainboard has been conducted.
09	2025-07-02	Extension by variants of BC-E (BSA Serie: different draft shield, different colors, fewer applications, no isoCAL)

The OIML Issuing Authority CH1

3003 Bern-Wabern, 2025-07-02

Approved by

Gulian Couvreur, Head of sector
METAS-Cert

Important note:

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