

EU CERTIFICATE OF CONFORMITY

In accordance with the requirements of the Pressure Equipment Directive 2014/68/EU .

This is to certify that the Quality Management System of:

E. BACHILLER B, S.A.
C/ Can Guast, 3 Pol Ind Levante.
08150 Parets del Valles, Barcelona (Spain)

has been assessed against the requirements of Annex III, **Module H1** of the Pressure Equipment Directive 2014/68/EU and conforms to the requirements for the products shown below:

Design and Fabrication of pressure vessels and heat exchangers
(See attached schedule)

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and continuing to comply with the EU Design Examination Certificate(s) as listed on the attached schedule.

Authorisation is hereby given to use the LRQA Inspection Iberia, S.A. Notified Body Identification Number in accordance with the requirements of the specified Directive and Regulations in relation to the products as identified above.

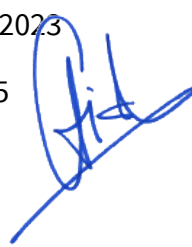
Certificate No: 0094/PED/MAD/0134 ENG

Original Approval: 20 December 2020

Current Certificate: 23 October 2023

Certificate Expiry: 19 July 2025

LRQA Inspection Iberia, S.A. Notified Body 0094



Cristel López, LRQA Decision Maker



EU CERTIFICATE SCHEDULE 0094/PED/MAD/0134 ENG

In accordance with the requirements of the Pressure Equipment Directive
2014/68/EU.

Manufacturing Plant : **C/ Can Guast, 3 Pol Ind Levante. 08150 Parets del Valles,
Barcelona (Spain)**

Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
REACTOR DE PROCESO 7,5 m3 / OT-1070201-1	0094/PED/MAD/10192	31/03/21	AD MERKBLATT
REACTOR DE PROCESO 7,5 m3 / OT-1070201-2	0094/PED/MAD/10193	07/04/21	AD MERKBLATT
COLUMNA DE DESTILACIÓN SÚBITA DN1000. Item: D-100 / OT-1068301	0094/PED/MAD/10198	02/07/21	EN 13445-3:2014 Issue 5 (2018-07)
DEPÓSITO 50 m3. Item: R-705 / OT-1074301-2	0094/PED/MAD/10425	02/07/21	AD MERKBLATT
REACTOR 1.2 m3. Item: REC-102 / OT-1072301	0094/PED/MAD/10437	02/07/21	AD MERKBLATT
DEPÓSITO 50 m3. Item: R-704 / OT-1074301-1	0094/PED/MAD/10441	02/07/21	AD MERKBLATT
DEPÓSITO 50 m3. Item: R-706/ OT-1074301-3	0094/PED/MAD/10442	02/07/21	AD MERKBLATT
REACTOR CRISTALIZADOR 6 m3.. Item: REC-105 / OT- 1072305	0094/PED/MAD/10443	02/07/21	AD MERKBLATT
REACTOR CONCENTRADOR 3 m3. Item: REC-104 / OT- 1072303-2	0094/PED/MAD/10444	02/07/21	AD MERKBLATT
REACTOR CONCENTRADOR 3 m3. Item: REC-103 / OT- 1072303-1	0094/PED/MAD/10445	06/07/2021	AD MERKBLATT
REACTOR 10 m3. Item: A-766.1 / OT-1074701	0094/PED/MAD/10452	20/07/2021	AD MERKBLATT
REACTOR DE PROCESO 7,5 m3 / OT-1070201-1	0094/PED/MAD/10192	31/03/21	AD MERKBLATT
REACTOR DE PROCESO 7,5 m3 / OT-1070201-2	0094/PED/MAD/10193	07/04/21	AD MERKBLATT
COLUMNA DE DESTILACIÓN SÚBITA DN1000. Item: D-100 / OT-1068301	0094/PED/MAD/10198	02/07/21	EN 13445-3:2014 Issue 5 (2018-07)



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C.I.F. - A28591287 - Registered office C/Princesa 29, 1º. 28008 Madrid. A subsidiary of LRQA Group Limited.

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Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
DEPÓSITO 50 m3. Item: R-705 / OT-1074301-2	0094/PED/MAD/10425	02/07/21	AD MERKBLATT
REACTOR 1.2 m3. Item: REC-102 / OT-1072301	0094/PED/MAD/10437	02/07/21	AD MERKBLATT
DEPÓSITO 50 m3. Item: R-704 / OT-1074301-1	0094/PED/MAD/10441	02/07/21	AD MERKBLATT
DEPÓSITO 50 m3. Item: R-706/ OT-1074301-3	0094/PED/MAD/10442	02/07/21	AD MERKBLATT
REACTOR CRISTALIZADOR 6 m3.. Item: REC-105 / OT-1072305	0094/PED/MAD/10443	02/07/21	AD MERKBLATT
REACTOR CONCENTRADOR 3 m3. Item: REC-104 / OT-1072303-2	0094/PED/MAD/10444	02/07/21	AD MERKBLATT
REACTOR CONCENTRADOR 3 m3. Item: REC-103 / OT-1072303-1	0094/PED/MAD/10445	06/07/2021	AD MERKBLATT
REACTOR 10 m3. Item: A-766.1 / OT-1074701	0094/PED/MAD/10452	20/07/2021	AD MERKBLATT
REACTOR 10 m3. Item: A-766.1 / OT-1074701	0094/PED/MAD/10452	20/07/2021	AD MERKBLATT
SECADOR HORIZONTAL / OT-1071001	0094/PED/MAD/10482	20/07/2021	AD MERKBLATT
REACTOR 10 m3. Item: R-19/20 / OT-1070801/1	0094/PED/MAD/10483	20/07/2021	AD MERKBLATT
REACTOR 10 m3. Item: R-20/20 / OT-1070801/2	0094/PED/MAD/10484	20/07/2021	AD MERKBLATT
REACTOR 8 m3. Item: R-21/20 / OT-1070805/1	0094/PED/MAD/10485	20/07/2021	AD MERKBLATT
REACTOR 8 m3. Item: R-24/20 / OT-1070805/2	0094/PED/MAD/10486	20/07/2021	AD MERKBLATT
REACTOR 8 m3. Item: R-25/20 / OT-1070813	0094/PED/MAD/10488	20/07/2021	AD MERKBLATT
REACTOR CRIÓGENICO 1 m3 / OT-1070809	0094/PED/MAD/10489	20/07/2021	AD MERKBLATT
REACTOR 10 m3. Item: R-01 / OT-1076601	0094/PED/MAD/10555	25/08/21	ASME VIII Div. 1. Ed 2019



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Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
HEAT EXCHANGER 60 m2. Item: E-714 / OT-1074402	0094/PED/MAD/10556	25/08/21	AD 2000 MERKBLATTER
CONDENSADOR 41,9 m2. / Item: CF-2 / OT-1079501	0094/PED/MAD/10616	16/09/21	AD MERKBLATT
EVAPORADOR 80 m2. / Item: E-707/ OT-1074401	0094/PED/MAD/10626	22/09/21	AD 2000 MERKBLATTER
HEATING CHEST / Item: HE-01 / OT-1075801	0094/PED/MAD/10735	19/10/2021	ASME VIII Div.1. Ed. 2019
FILTRO NUCHA FNB-0.7. / OT-1074001	0094/PED/MAD/10764	26/10/2021	AD MERKBLATT
COLUMNA 3.4 m3 / Item: CCP-100 / OT-1072501/1	0094/PED/MAD/10765	26/10/2021	AD MERKBLATT
COLUMNA 3.4 m3 / Item: CCP-101 / OT-1072501/2	0094/PED/MAD/10766	26/10/2021	AD MERKBLATT
SECADOR HORIZONTAL / OT-1069801	0094/PED/MAD/10771	29/10/2021	AD MERKBLATT
SECADOR HORIZONTAL SHV-3000. / OT1070901/1 y OT1070901/2	0094/PED/MAD/10788	04/11/2021	AD 2000 MERKBLATTER
FILTRO SECADOR FS600 / OT-1072401	0094/PED/MAD/10821	11/11/2021	AD MERKBLATT
DEPÓSITO 1,1 m3 Item: DCA-01 / OT-1080501	0094/PED/MAD/10831	19/11/2021	AD MERKBLATT
INTERCAMBIADOR Item: 645-E-04-G / OT-1068701	0094/PED/MAD/10836	30/11/2021	ASME VIII Div.1. Ed. 2019
INTERCAMBIADOR Item : 645-E-04-H / OT-1068702-1	0094/PED/MAD/10856	30/11/2021	ASME VIII Div.1. Ed. 2019
INTERCAMBIADOR Item : 645-E-04-I / OT-1068702-2	0094/PED/MAD/10857	30/11/2021	ASME VIII Div.1. Ed. 2019
CRISTALIZADOR 4.2 m3. OT-1036105	0094/PED/MAD/10964	30/12/2021	AD MERKBLATT
REACTORES 2.5 m3. OT-1036101-1-2	0094/PED/MAD/10989	07/01/2022	AD MERKBLATT



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Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
REACTOR 10 m3. Item: R-66/21 OT-1074501	0094/PED/MAD/11027	21/01/22	AD MERKBLATT
FALLING FILM HEAT EXCHANGER. Item: E-1630 OT 1080204	0094/PED/MAD/11088	17/02/2022	AD MERKBLATT
FALLING FILM HEAT EXCHANGER. Item: E-1644 OT-1080205	0094/PED/MAD/11093	17/02/2022	AD MERKBLATT
FALLING FILM HEAT EXCHANGER. Item: E-1661 OT 1080206	0094/PED/MAD/11103	18/02/2022	AD MERKBLATT
DECARBOXILATION REACTOR 37 m3. Item: V-1651 OT 1079803	0094/PED/MAD/11143	07/03/2022	AD MERKBLATT
ALDOL REACTOR 43,7 m3. Item: V-1611 OT 1079801	0094/PED/MAD/11150	14/03/2022	AD MERKBLATT
MICHAEL REACTOR. Item: V-1641 OT 1079802	0094/PED/MAD/11151	14/03/2022	AD MERKBLATT
FRACTIONATING VESSEL. Item: V-1631 OT 1080210	0094/PED/MAD/11152	14/03/2022	AD MERKBLATT
C-1641 DMM FRACTIONATING VESSEL. Item: V-1640 OT 1080211/	0094/PED/MAD/11159	14/03/2022	AD MERKBLATT
FRACTIONATING 2 VESSEL. C-1661. Item: V-1661 OT 1080212	0094/PED/MAD/11160	14/03/2022	AD MERKBLATT
DECANTER. Item: B-2604 OT1082901	0094/PED/MAD/11202	28/03/2022	AD MERKBLATT
MINERAL OIL PACKOUT VESSEL. Item: R-2425. OT 1083401	0094/PED/MAD/11316	05/05/2022	AD MERKBLATT
FRACTIONATION I TOWER. Item: C-1631 OT 1080201	0094/PED/MAD/11317	05/05/2022	AD MERKBLATT
FRACTIONATION 2 TOWER. Item: C-1661. OT 1080203	0094/PED/MAD/11318	05/05/2022	AD MERKBLATT



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DMM TOWER. Item: C-1641 OT 1080202	0094/PED/MAD/11319	05/05/2022	AD MERKBLATT
CONDENSADOR DE VAPORES 237 m2. OT 1073501	0094/PED/MAD/11324	05/05/2022	AD MERKBLATT
AGEING VESSEL. Item: R-16 OT 1084501	0094/PED/MAD/11325	05/05/2022	AD MERKBLATT
FORMALDEHYDE REACTOR. Item: R-3106. OT 1083603	0094/PED/MAD/11338	12/05/2022	EN 13445-3:2014 Issue 5 (2018-07)
C-1631 TOTAL CONDENSER. Item: E-1631 OT 1080207	0094/PED/MAD/11339	12/05/2022	AD MERKBLATT
REACTOR HORIZONTAL. Item: TWZW19. OT 1082601	0094/PED/MAD/11340	12/05/2022	ASME VIII Div. 1. Ed. 2019
C-1641 TOTAL CONDENSER. Item: E-1645 OT 1080208	0094/PED/MAD/11345	12/05/2022	AD MERKBLATT
PRE CONDENSER FOR FRACTIONATION 2. Item: E-1662. OT 1080209	0094/PED/MAD/11354	19/05/2022	AD MERKBLATT
HTF CONDENSER. Item: H-4102 OT 1083602	0094/PED/MAD/11355	19/05/2022	EN 13445-3:2014 Issue 5 (2018-07)
METHANOL VAPORISER. Item: H-3104. OT 1083601	0094/PED/MAD/11357	19/05/2022	EN 13445-3:2014 Issue 5 (2018-07)
ECS PREHEATER AND REACTOR. Item: R-5506/H-5502 OT 1083604	0094/PED/MAD/11358	19/05/2022	EN 13445-3:2014 Issue 5 (2018-07)
INTERCAMBIADOR 254,9 m2. Item: 607E-002A. OT 1075701	0094/PED/MAD/11454	10/06/2022	ASME VIII Div. 1. Ed. 2019 & TEMA
INTERCAMBIADOR 254,9 m2. Item: 607E-002B OT 1075702	0094/PED/MAD/11455	10/06/2022	ASME VIII Div. 1. Ed. 2019 & TEMA
GENERADOR DE VAPOR. Item: 607E-003. OT 1075703	0094/PED/MAD/11471	15/06/2022	ASME VIII Div. 1. Ed. 2019 & TEMA



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Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
CALENTADOR PUESTA EN MARCHA. Item: 607E-005 / OT 1075706	0094/PED/MAD/11542	12/07/2022 Exp. 12/07/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
POST CONDENSADOR ALTA PRESIÓN. Item: 607E-007 / OT 1075707	0094/PED/MAD/11543	12/07/2022 Exp. 12/07/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
INTERCAMBIADOR DE VAPOR CALIENTE. Item: 607E-012 / OT 1075712	0094/PED/MAD/11544	12/07/2022 Exp. 12/07/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
INTERCAMBIADOR ALIMENTACIÓN. Item: 607E-011C / OT 1075710	0094/PED/MAD/11570	12/07/2022 Exp. 12/07/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
INTERCAMBIADOR. Item: 607E-011D / OT 1075711	0094/PED/MAD/11571	12/07/2022 Exp. 12/07/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
REHERVIDOR DE LA REGENERADORA DE AMINA. Item: 607E-030 / OT 1075713	0094/PED/MAD/11572	12/07/2022 Exp. 12/07/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
REACTOR 316L/C22. R-31/22	0094/PED/MAD/11691	10/08/2022 Exp. 10/08/2032	AD MERKBLATT
PRECALENTADOR DE GAS. Item: 607E-004B / OT 1075705	0094/PED/MAD/11719	31/8/2022 Exp. 31/08/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
ECS STEAM GENERATOR. Item: H-5508-01 OT 1083607	0094/PED/MAD/11720	02/09/2022 Exp. 02/09/2032	EN 13445 Ed.2021
PRECALENTADOR DE GAS. Item: 607E-004A / OT 1075704	0094/PED/MAD/11721	31/08/2022 Exp. 31/08/2032	ASME VIII Div. 1. Ed. 2019 & TEMA
REACTOR 3 m3. OT 1083001	0094/PED/MAD/11722	01/09/2022 Exp. 01/09/2032	AD MERKBLATT
DEPÓSITO 0.8 m3. OT 1083003	0094/PED/MAD/11723	02/09/2022 Exp. 02/09/2032	AD MERKBLATT
REACTOR 45 m3. Item: R-901 OT 1087101	0094/PED/MAD/11751	06/09/2022 Exp. 06/09/2032	AD MERKBLATT
DEPÓSITO 0.05 m3. OT 1083004/	0094/PED/MAD/11752	06/09/2022 Exp. 06/09/2032	AD MERKBLATT
PRECUT 1 RECEIVING POT 1,2 m3. Item: V-1662 OT 1078302	0094/PED/MAD/11758	14/09/2022 Exp. 14/09/2032	AD MERKBLATT



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Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
PRECUT 2 RECEIVING POT. Item: V-1663 OT 1078303	0094/PED/MAD/11759	14/09/2022 Exp. 14/09/2032	AD MERKBLATT
REACTOR 10 m3. Item: R-02 / OT 1086601	0094/PED/MAD/11766	20/09/2022 Exp. 20/09/2032	ASME VIII Div. 1. Ed. 2019
TORRE RECTIFICACIÓN METANOL. Item: D-01N / OT 1086603	0094/PED/MAD/11767	20/09/2022 Exp. 20/09/2032	AD MERKBLATT
METHANOL VAPORISER. Item: H-3204 / OT 1085301	0094/PED/MAD/11784	26/09/2022 Exp. 26/09/2032	EN 13445-3:2014 Issue 5 (2018-07)
HTF CONDENSER. Item: H-4202 / OT 1085302	0094/PED/MAD/11785	26/09/2022 Exp. 26/09/2032	EN 13445-3:2014 Issue 5 (2018-07)
VERTICAL DRYER SDV-050. OT1082401	0094/PED/MAD/11840	19/10/2022 Exp 19/10/2022	EN 13445 Ed.2021
REACTOR 26 m3. Item: R-109. OT 1089901	0094/PED/MAD/11880	07/11/2022 Exp. 07/11/2032	AD MERKBLATT
INTERCAMBIADOR ALIMENTACIÓN. Item: 607E-011B OT1075709	0094/PED/MAD/11922	15/11/2022 Exp. 15/11/2032	ASME VIII Div. 1. Ed. 2019 & TEMA 10th Ed. And API 660 Ed.2015
INTERCAMBIADOR ALIMENTACIÓN. Item: 607E-011A OT 1075708	0094/PED/MAD/11924	15/11/2022 Exp. 15/11/2032	ASME VIII Div. 1. Ed. 2019 & TEMA 10th Ed. And API 660 Ed.2015
CUERPO VÁLVULA SALIDA REACTOR. Item: TWZW19. OT 1082603	0094/PED/MAD/11944	22/11/2022 Exp. 22/11/2032	ASME VIII Div. 1. Ed. 2019
BACHMIX COMPACT 1000 / OT 1080401	0094/PED/MAD/11970	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
HTF TANK. Item: V-4004 / OT 1091605	0094/PED/MAD/11971	22/12/2022 Exp. 22/12/2032	EN 13445 Ed.2021
METHANOL VAPORISER. Item: H-3104 OT 1091601	0094/PED/MAD/11972	22/12/2022 Exp. 22/12/2032	EN 13445 Ed.2021
PRECUT 3 RECEIVING POT Item: V-1664 OT 1078304	0094/PED/MAD/11973	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
COLUMNA DESTILACIÓN 0.5 m3 Item: K-530 OT 1093201	0094/PED/MAD/11974	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
INTERCAMBIADOR 17 m2 Item: W-530 OT 1093202/1 /	0094/PED/MAD/11981	22/12/2022 Exp. 22/12/2032	AD MERKBLATT



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DEPOSITO 5 m3. Item: B-530 OT 1093203	0094/PED/MAD/11982	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
INTERCAMBIADOR 17 m2. Item: W-532 OT 1093202/2	0094/PED/MAD/11986	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
VACUUM DRYER OT 1085701-1-2	0094/PED/MAD/11988	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
DEPÓSITO VACÍO 0.2 m3. Item: B-538 OT 1093205	0094/PED/MAD/11989	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
FILTRO SEPARADOR 0.35 m3. Item: F-538 OT 1093206	0094/PED/MAD/11990	22/12/2022 Exp. 22/12/2032	AD MERKBLATT
HTF TANK HORIZONTAL 35 m3 Item: V-4004 OT 1083605	0094/PED/MAD/11993	03/01/2023 Exp. 03/01/2033	EN 13445 Ed.2021
DILUIDOR 40 m3. OT 1088403	0094/PED/MAD/11994	03/01/2023 Exp. 03/01/2033	AD MERKBLATT
DILUIDOR 30 m3. Item: D-52 OT 1088405	0094/PED/MAD/11995	03/01/2023 Exp. 03/01/2033	AD MERKBLATT
CONDENSADOR (BEM) 60 m2 . Item: C50 OT 1088408	0094/PED/MAD/11996	03/01/2023 Exp. 03/01/2033	AD MERKBLATT
CONDENSADOR (BEM) 30 m2. Item: C52 OT 1088409	0094/PED/MAD/11998	11/01/2023 Exp. 11/01/2033	AD MERKBLATT
CONDENSADOR (BEM) 35 m2. Item: C51 OT 1088410	0094/PED/MAD/11999	11/01/2023 Exp. 11/01/2033	AD MERKBLATT
REACTOR 21 m3. Item: R-2910 OT 1091901	0094/PED/MAD/12000	12/01/2023 Exp. 12/01/2033	AD MERKBLATT
REACTOR 20 m3. Item: R-50 OT 1088401	0094/PED/MAD/12004	12/01/2023 Exp. 12/01/2033	AD MERKBLATT
COLUMNA 316L. Item: CM50 OT 1088407	0094/PED/MAD/12005	12/01/2023 Exp. 12/01/2033	AD MERKBLATT
INTERCAMBIADOR 67 m2. OT 1088414	0094/PED/MAD/12007	26/01/2023 Exp. 26/01/2033	AD MERKBLATT
CONICAL DRYER MCV-450-NS. OT 1084801/1 & 1084801/2	0094/PED/MAD/12008	26/01/2023 Exp. 26/01/2033	EN 13445-3:2014 Issue 5 (2018-07)



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EU CERTIFICATE SCHEDULE 0094/PED/MAD/0134 ENG

In accordance with the requirements of the Pressure Equipment Directive
2014/68/EU.

Product (s)	EU Design Examination Certificate n°	Date of issue	Design Standard / Code
DEPÓSITO DESTILADOS. OT 1093204. Item: B-537	0094/PED/MAD/12046	22/02/2023 Exp. 22/02/2033	AD MERKBLATT
AGITATED VESSEL 15 m3. OT 1094701. Item: V-8425	0094/PED/MAD/12129	10/04/2023 Exp. 10/04/2033	ASME VIII Div. 1. Ed. 2021
DEPÓSITO ALMACENAMIENTO DISOLVENTE LIMPIO. Item: D-14028/ OT 1095101	0094/PED/MAD/12164	24/03/2023 Exp. 24/03/2033	EN 13445-3:2021
FILTRO NUCHA FNB-1.5S. OT 1087201	0094/PED/MAD/12197	23/05/2023 Exp. 23/05/2033	EN 13445-3:2021
FILTRO NUCHA FNB-3S. OT 1087301	0094/PED/MAD/12198	23/05/2023 Exp. 23/05/2033	EN 13445-3:2021
MAIN REACTOR. OT 1091603. Item: R-3106	0094/PED/MAD/12207	12/06/2023 Exp. 23/06/2033	EN 13445-3:2021

Schedule Issue: 02
Date of Schedule Issue: 23 October 2023
Notified Body 0094



Cristel López, LRQA Decision Maker



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