

**CERTIFICATE OF ANALYSIS**

<b>ISSUER</b>	<b>LOT NO.:</b>	20180525-2
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MAY.23,2018
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*7BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/5/25
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/5/26
	<b>EXPIRE DATE:</b>	2019/5/25

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.81
MELTING POINT	℃	≥	152.0	152.2
APHA COLOR	-	≤	3.0	0.42
MOISTURE	%	≤	0.2	0.19
ASH	PPM	≤	4.0	1.5
IRON	PPM	≤	0.2	0.05
NITRIC ACID	PPM	≤	1.0	N.D

重庆华峰化工有限公司  
CHONGQING HUAFON CHEMICAL CO.,LTD

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**CERTIFICATE OF ANALYSIS**

<b>ISSUER</b>	<b>LOT NO.:</b>	20180419-4
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-170334A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*23BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/4/19
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/4/20
	<b>EXPIRE DATE:</b>	2019/4/19

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.85
MELTING POINT	℃	≥	152.0	152.2
APHA COLOR	-	≤	3.0	0.57
MOISTURE	%	≤	0.2	0.15
ASH	PPM	≤	4.0	1.4
IRON	PPM	≤	0.2	0.17
NITRIC ACID	PPM	≤	1.0	0.71

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**CERTIFICATE OF ANALYSIS**

<b>ISSUER</b>	<b>LOT NO.:</b>	20180420-4
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086- 23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-180004A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*16BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/4/24
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL : +81-3-3551-1450 FAX : +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/4/25
	<b>EXPIRE DATE:</b>	2019/4/24

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.82
MELTING POINT	℃	≥	152.0	152.2
APHA COLOR	-	≤	3.0	0.57
MOISTURE	%	≤	0.2	0.18
ASH	PPM	≤	4.0	1.8
IRON	PPM	≤	0.2	0.17
NITRIC ACID	PPM	≤	1.0	0.7

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# CERTIFICATE OF ANALYSIS

<b>ISSUER</b>	<b>LOT NO.:</b>	20180327-3
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-170333A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*19BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/3/27
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/3/28
	<b>EXPIRE DATE:</b>	2019/3/27

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≧	99.8	99.83
MELTING POINT	℃	≧	152.0	152.3
APHA COLOR	-	≦	3.0	0.85
MOISTURE	%	≦	0.2	0.17
ASH	PPM	≦	4.0	1.7
IRON	PPM	≦	0.2	0.16
NITRIC ACID	PPM	≦	1.0	0.63

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**CERTIFICATE OF ANALYSIS**

<b>ISSUER</b>  CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>LOT NO.:</b>	20180326-3
	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-170333A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*11BAGS
<b>TO</b>  MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>MANUFACTURE DATE:</b>	2018/3/26
	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/3/27
	<b>EXPIRE DATE:</b>	2019/3/26

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.83
MELTING POINT	℃	≥	152.0	152.2
APHA COLOR	-	≤	3.0	0.57
MOISTURE	%	≤	0.2	0.17
ASH	PPM	≤	4.0	1.6
IRON	PPM	≤	0.2	0.15
NITRIC ACID	PPM	≤	1.0	0.65

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**CERTIFICATE OF ANALYSIS**

<b>ISSUER</b>	<b>LOT NO.:</b>	20180328-3
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-170344A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*30BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/3/28
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/3/29
	<b>EXPIRE DATE:</b>	2019/3/28

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≧	99.8	99.83
MELTING POINT	℃	≧	152.0	152.1
APHA COLOR	-	≦	3.0	0.42
MOISTURE	%	≦	0.2	0.17
ASH	PPM	≦	4.0	1.6
IRON	PPM	≦	0.2	0.18
NITRIC ACID	PPM	≦	1.0	0.46

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## CERTIFICATE OF ANALYSIS

<b>ISSUER</b>	<b>LOT NO.:</b>	20180523-2
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MAY.23,2018
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*23BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/5/23
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/5/24
	<b>EXPIRE DATE:</b>	2019/5/23

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.83
MELTING POINT	℃	≥	152.0	152
APHA COLOR	-	≤	3.0	0.28
MOISTURE	%	≤	0.2	0.17
ASH	PPM	≤	4.0	1.5
IRON	PPM	≤	0.2	0.02
NITRIC ACID	PPM	≤	1.0	N.D

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## CERTIFICATE OF ANALYSIS

<b>ISSUER</b>	<b>LOT NO.:</b>	20180421-4
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-180006A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*30BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/4/21
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/4/22
	<b>EXPIRE DATE:</b>	2019/4/21

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.83
MELTING POINT	℃	≥	152.0	152.2
APHA COLOR	-	≤	3.0	0.71
MOISTURE	%	≤	0.2	0.17
ASH	PPM	≤	4.0	1.6
IRON	PPM	≤	0.2	0.17
NITRIC ACID	PPM	≤	1.0	0.61

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## CERTIFICATE OF ANALYSIS

<b>ISSUER</b>	<b>LOT NO.:</b>	20171116-2
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-170248A
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*30BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	201711/16
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2017/11/17
	<b>EXPIRE DATE:</b>	2018/11/16

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≥	99.8	99.84
MELTING POINT	℃	≥	152.0	152.1
APHA COLOR	-	≤	3.0	0.57
MOISTURE	%	≤	0.2	0.16
ASH	PPM	≤	4.0	1.7
IRON	PPM	≤	0.2	0.04
NITRIC ACID	PPM	≤	1.0	N.D

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## CERTIFICATE OF ANALYSIS

<b>ISSUER</b>	<b>LOT NO.:</b>	20180314-3
CHONGQING HUAFON CHEMICAL CO.,LTD. HUAFON INDUSTRY PARK OF BAITAO CHEMICAL INDUSTRY PARK, FULING DISTRICT, CHONGQING,CHINA TEL:0086-23-85710895 FAX:0086-23-85710725	<b>COMMODITY:</b>	ADIPIC ACID
	<b>INVOICE NO.:</b>	MCT3-170332
	<b>COUNTRY OF ORIGIN:</b>	CHINA
	<b>QUANTITY:</b>	500KG*30BAGS
<b>TO</b>	<b>MANUFACTURE DATE:</b>	2018/3/14
MARUZEN CHEMICAL TRADING CO.,LTD 1-1, IRIFUNE 2-CHOME、CHUO-KU, TOKYO 104-0042, JAPAN TEL: +81-3-3551-1450 FAX: +81-3-3551-1426	<b>TEST STANDARD:</b>	Q/HFHG J003-2017
	<b>TEST DATE:</b>	2018/3/15
	<b>EXPIRE DATE:</b>	2019/3/14

We hereby certify that the undermentioned goods have been produced and inspected as follows:

ITEM	UNIT		SPECIFICATION	RESULT
APPEARANCE	-	-	WHITE CRYSTAL POWDER	WHITE CRYSTAL POWDER
PURITY	%	≧	99.8	99.84
MELTING POINT	℃	≧	152.0	152.2
APHA COLOR	-	≦	3.0	0.57
MOISTURE	%	≦	0.2	0.16
ASH	PPM	≦	4.0	1.7
IRON	PPM	≦	0.2	0.13
NITRIC ACID	PPM	≦	1.0	0.54

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