



Otsuka Chemical Co., Ltd.

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CERTIFICATE OF ANALYSIS

2/3
7th October 2009

ADIPIC ACID DIHYDRAZIDE
100380
BATCH NR: 8K96, 8K00, 8K01, 8L72, 9F94
NET WEIGHT: 20 KGS
GROSS WEIGHT: 21.6 KGS
PRODUCTION DATE: 25.11.2008
29.11.2008, 30.11.2008, 01.12.2008
23.06.2009
EXPIRY DATE: 08.10.2010
NO.1-480
MADE IN JAPAN

Commodity : Adipic dihydrazide

Quantity : 9,600kg (20kg × 480)

Lot No.	↓ 8K01 2,340kg (20kg × 117)	↓ 8L72 2,400kg (20kg × 120)	Standard Specifications
Production date	30.11.2008	01.12.2008	
Expiry date	08.10.2010	08.10.2010	
Appearance	White crystalline powder	White crystalline powder	White crystalline powder
Melting point(°C)	181	181	177~183
Assay(%)	99.2	99.4	95.0 min.
Iron(Fe)(%)	0.0001	0.0001	0.0005 max.
Sulfate(as SO ₄)(%)	0.001 max.	0.001 max.	0.003 max.
Chloride(Cl)(%)	0.0001 max.	0.0001 max.	0.005 max.
Loss on drying(%)	0.07	0.07	0.3 max.

Remark

We hereby certify that the above statements are true and correct in every respect.

003850-0997560

S. Kawamura
S. Kawamura : Senior Manager
Quality Assurance Department

0900070284



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CERTIFICATE OF ANALYSIS

1/3
7th October 2009

Commodity : Adipic dihydrazide

ADIPIC ACID DIHYDRAZIDE
100380
BATCH NR: 8K96, 8K00, 8K01, 8L72, 9F94
NET WEIGHT: 20 KGS
GROSS WEIGHT: 21.6 KGS
PRODUCTION DATE: 25.11.2008
29.11.2008, 30.11.2008, 01.12.2008
23.06.2009
EXPIRY DATE: 08.10.2010
NO. 1-480
MADE IN JAPAN

Quantity : 9,600kg (20kg × 480)

Lot No.	8K96	8K00	Standard Specifications
	1,220kg (20kg × 61)	2,380kg (20kg × 119)	
Production date	25.11.2008	29.11.2008	
Expiry date	08.10.2010	08.10.2010	
Appearance	White crystalline powder	White crystalline powder	White crystalline powder
Melting point(°C)	181	180	177~183
Assay(%)	99.4	99.4	95.0 min.
Iron(Fe)(%)	0.0001	0.0001	0.0005 max.
Sulfate(as SO ₄)(%)	0.001 max.	0.001 max.	0.003 max.
Chloride(Cl)(%)	0.0001 max.	0.0001 max.	0.005 max.
Loss on drying(%)	0.08	0.07	0.3 max.

Remark

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CERTIFICATE OF ANALYSIS

3/3
7th October 2009

Commodity : Adipic dihydrazide

ADIPIC ACID DIHYDRAZIDE
100380
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NET WEIGHT: 20 KGS
GROSS WEIGHT: 21.6 KGS
PRODUCTION DATE: 25.11.2008
29.11.2008, 30.11.2008, 01.12.2008
23.06.2009
EXPIRY DATE: 08.10.2010
NO. 1-480
MADE IN JAPAN

Quantity : 9,600kg (20kg × 480)

Lot No.	↓ 9F94	Standard Specifications
Production date	1,260kg (20kg × 63) 23.06.2009	
Expiry date	08.10.2010	
Appearance	White crystalline powder	White crystalline powder
Melting point(°C)	181	177~183
Assay(%)	99.4	95.0 min.
Iron(Fe)(%)	0.0001	0.0005 max.
Sulfate(as SO ₄)(%)	0.001 max.	0.003 max.
Chloride(Cl)(%)	0.0001 max.	0.005 max.
Loss on drying(%)	0.13	0.3 max.

Remark

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