

Date: 10/Apr/2024

Analytical Report: SP23-00578.003 Reissue: 6**** This Report cancels and supersedes the Report No. SP23-00578.003****Dated 23/Jun/2023 issued by SGS.****Lohrhof GmbH
Waidach 124/1
Adnet
AUSTRIA
5421**Reissue Comment: change to english language**

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Precision data are calculated on request. Users of the data shown on this report should refer to the latest published revisions of ASTM D-3244; IP 367; ISO 4259 and Appendix E of IP Standard Methods for Analysis and Testing when utilising the test data to determine conformance with any specification or process requirement. Analytical Reports are sent as pdf file without signature. A signed document will be sent on request. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This laboratory is accredited under ISO/IEC 17025. The results reported herein have been performed in accordance with the laboratory's term of accreditation except tests marked with an asterisk (*) in this report which are not within the scope of accreditation for our laboratory.

264095223

CLIENT ORDER NUMBER :		SGS ORDER NO.:	72806967_6524283
CLIENT ID :	Super Plus 98 Oktan	PRODUCT DESCRIPTION :	Gasoline
SAMPLE SOURCE :	Petrol pump	SOURCE ID :	8
SAMPLE TYPE :	As submitted	SAMPLED BY :	SGS
SAMPLED :	--	RECEIVED :	01/Mrz/2023
ANALYSED :	06/Mrz/2023 - 03/Mai/2023	COMPLETED :	03/Mai/2023
SUB-SAMPLE :	[1: 5 Litre Can]		
REPORT COMMENT :	Zum Abgleich wurden die Limits der Spezifikation EN228 genutzt.		

The limits of the EN228 specification were used for comparison.

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Density at 15°C	DIN EN ISO 12185:1997	748,3 kg/m³	720,0	775,0
Knock Characteristics of Motor Fuels - Research Method	DIN EN ISO 5164:2014			
Research Octane Number		101,3 Rating	--	--
Research Octane Number (EN 228 corrected)		101,1 Rating	95,0	--
Knock Characteristics of Motor and Aviation Fuels - Motor Method	DIN EN ISO 5163:2014			
Motor Octane Number		90,0 Rating	--	--
Motor Octane Number (EN 228 corrected)		89,8 Rating	85,0	--
Distillation at Atmospheric Pressure	DIN EN ISO 3405:2019-09			
Initial boiling point (IBP)		30,8 °C	--	--
Evaporated at 70°C		26,9 % (v/v)	20,0	48,0
Evaporated at 100°C		62,1 % (v/v)	46,0	71,0
Evaporated at 130°C		95,1 % (v/v)	--	--
Evaporated at 150°C		96,5 % (v/v)	75,0	--
Evaporated at 170°C		97,6 % (v/v)	--	--
Evaporated at 180°C		98,8 % (v/v)	--	--

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i.V. Dr. NICO HOHLBEIN
Division Manager Lab Operations

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SGS Germany GmbH

Am Neuen Rheinhafen 12a, D-67346 Speyer, Germany (t)+49 6232 1301-0

Member of the SGS Group (Société Générale de Surveillance)

Geschäftsführer: Dr. Tomasz P. Bednarczyk, Sitz der Gesellschaft: Hamburg, HRB 4951 Amtsgericht Hamburg, Aufsichtsratsvorsitzender: Malcolm Reid

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Final boiling point (FBP)		181,2 °C	--	210
Residue		1,0 % (v/v)	--	2
5% Evaporated at		45,9 °C	--	--
10% Evaporated at		52,8 °C	--	--
20% Evaporated at		63,2 °C	--	--
30% Evaporated at		73,2 °C	--	--
40% Evaporated at		83,3 °C	--	--
50% Evaporated at		92,3 °C	--	--
60% Evaporated at		98,9 °C	--	--
70% Evaporated at		103,9 °C	--	--
80% Evaporated at		108,3 °C	--	--
90% Evaporated at		115,6 °C	--	--
95% Evaporated at		129,6 °C	--	--
Gum Content of Light and Middle Distillate Fuels -	DIN EN ISO 6246:2020-01			
Jet Evaporation				
Gum (unwashed)		34,0 mg/100mL	--	--
Gum (solvent-washed)		<0,5 mg/100mL	--	5
Copper Strip corrosion (3 h / 50 °C)	DIN EN ISO 2160:1999	1a Rating	--	1
Water Content by Coulometric KF	DIN EN ISO 12937:2002	0,013 % (m/m)	--	--
Sulfur	DIN EN ISO 20846:2019-12	<3,0 mg/kg	--	10,0
Appearance *	Visual	clear & bright, free from solid matter and undissolved water	--	--
Color *	Visual	Yellow	--	--
Elements in Gasoline - ICP-OES *	SGS M2533			
Silicon *		<0,1 mg/kg	--	--
Iron *		<0,1 mg/kg	--	--
Aluminium *		<0,1 mg/kg	--	--
Copper *		<0,1 mg/kg	--	--
Lead *		<0,1 mg/kg	--	--
Tin *		<0,1 mg/kg	--	--
Chromium *		<0,1 mg/kg	--	--

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Division Manager Lab Operations

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Am Neuen Rheinhafen 12a, D-67346 Speyer, Germany (t)+49 6232 1301-0

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Nickel *		<0,1 mg/kg	--	--
Zinc *		<0,1 mg/kg	--	--
Phosphorus *		<0,1 mg/kg	--	--
Magnesium *		<0,1 mg/kg	--	--
Calcium *		<0,1 mg/kg	--	--
Sodium *		<0,1 mg/kg	--	--
Molybdenum *		<0,1 mg/kg	--	--
Barium *		<0,1 mg/kg	--	--
Potassium *		<0,1 mg/kg	--	--
Titanium *		<0,1 mg/kg	--	--
Vanadium *		<0,1 mg/kg	--	--
Boron *		<0,1 mg/kg	--	--
Manganese *		<0,1 mg/kg	--	--
Cadmium *		<0,1 mg/kg	--	--
Silver *		<0,1 mg/kg	--	--
Cobalt *		<0,1 mg/kg	--	--
Lithium *		<0,1 mg/kg	--	--

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Member of the SGS Group (Société Générale de Surveillance)

Geschäftsführer: Dr. Tomasz P. Bednarczyk, Sitz der Gesellschaft: Hamburg, HRB 4951 Amtsgericht Hamburg, Aufsichtsratsvorsitzender: Malcolm Reid

Date: 10/Apr/2024

Analytical Report: SP23-00578.004 Reissue: 6**** This Report cancels and supersedes the Report No. SP23-00578.004****Dated 23/Jun/2023 issued by SGS.****Lohrhof GmbH
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264095223

CLIENT ORDER NUMBER :

SGS ORDER NO.:

72806967_6524283

CLIENT ID :

Super Plus 98 Oktan + FeroxTM

PRODUCT DESCRIPTION :

Gasoline - Super Plus 98 Oktan + FeroxTM
der Fa. Rennsli Corp.

SAMPLE SOURCE :

Petrol pump

SOURCE ID :

8

SAMPLE TYPE :

As submitted

SAMPLED BY :

SGS

SAMPLED :

--

RECEIVED :

01/Mrz/2023

ANALYSED :

06/Mrz/2023 - 03/Mai/2023

COMPLETED :

03/Mai/2023

SUB-SAMPLE :

[1: 5 Litre Can]

SAMPLE COMMENT :

Mischungsverhältnis: 0,0653g FeroxTM auf 4,90l Super Plus 98 Oktan

REPORT COMMENT :

Zum Abgleich wurden die Limits der Spezifikation EN228 genutzt.

The limits of the EN228 specification were used for comparison.

PROPERTY	METHOD	RESULT	UNITS	MIN	MAX
Density at 15°C	DIN EN ISO 12185:1997	748,9	kg/m³	720,0	775,0
Knock Characteristics of Motor Fuels - Research Method	DIN EN ISO 5164:2014				
Research Octane Number		101,5	Rating	--	--
Research Octane Number (EN 228 corrected)		101,3	Rating	95,0	--
Knock Characteristics of Motor and Aviation Fuels - Motor Method	DIN EN ISO 5163:2014				
Motor Octane Number		90,3	Rating	--	--
Motor Octane Number (EN 228 corrected)		90,1	Rating	85,0	--
Distillation at Atmospheric Pressure	DIN EN ISO 3405:2019-09				
Initial boiling point (IBP)		32,2	°C	--	--
Evaporated at 70°C		26,1	% (v/v)	20,0	48,0
Evaporated at 100°C		61,8	% (v/v)	46,0	71,0
Evaporated at 130°C		95,1	% (v/v)	--	--
Evaporated at 150°C		96,4	% (v/v)	75,0	--
Evaporated at 170°C		97,6	% (v/v)	--	--
Evaporated at 180°C		98,7	% (v/v)	--	--
Final boiling point (FBP)		180,8	°C	--	210
Residue		1,0	% (v/v)	--	2
5% Evaporated at		47,1	°C	--	--
10% Evaporated at		53,8	°C	--	--
20% Evaporated at		64,2	°C	--	--

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
30% Evaporated at		73,9 °C	--	--
40% Evaporated at		83,9 °C	--	--
50% Evaporated at		92,7 °C	--	--
60% Evaporated at		99,0 °C	--	--
70% Evaporated at		103,9 °C	--	--
80% Evaporated at		108,6 °C	--	--
90% Evaporated at		115,9 °C	--	--
95% Evaporated at		129,6 °C	--	--
Gum Content of Light and Middle Distillate Fuels -	DIN EN ISO 6246:2020-01			
Jet Evaporation				
Gum (unwashed)		34,0 mg/100mL	--	--
Gum (solvent-washed)		<0,5 mg/100mL	--	5
Copper Strip corrosion (3 h / 50 °C)	DIN EN ISO 2160:1999	1a Rating	--	1
Water Content by Coulometric KF	DIN EN ISO 12937:2002	0,011 % (m/m)	--	--
Sulfur	DIN EN ISO 20846:2019-12	<3,0 mg/kg	--	10,0
Appearance *	Visual	clear & bright, free from solid matter and undissolved water	--	--
Color *	Visual	Yellow	--	--
Elements in Gasoline - ICP-OES *	SGS M2533			
Silicon *		<0,1 mg/kg	--	--
Iron *		0,6 mg/kg	--	--
Aluminium *		<0,1 mg/kg	--	--
Copper *		<0,1 mg/kg	--	--
Lead *		<0,1 mg/kg	--	--
Tin *		<0,1 mg/kg	--	--
Chromium *		<0,1 mg/kg	--	--
Nickel *		<0,1 mg/kg	--	--
Zinc *		<0,1 mg/kg	--	--
Phosphorus *		<0,1 mg/kg	--	--
Magnesium *		<0,1 mg/kg	--	--
Calcium *		<0,1 mg/kg	--	--

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Sodium *		<0,1 mg/kg	--	--
Molybdenum *		<0,1 mg/kg	--	--
Barium *		<0,1 mg/kg	--	--
Potassium *		<0,1 mg/kg	--	--
Titanium *		<0,1 mg/kg	--	--
Vanadium *		<0,1 mg/kg	--	--
Boron *		<0,1 mg/kg	--	--
Manganese *		<0,1 mg/kg	--	--
Cadmium *		<0,1 mg/kg	--	--
Silver *		<0,1 mg/kg	--	--
Cobalt *		<0,1 mg/kg	--	--
Lithium *		<0,1 mg/kg	--	--

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Analytical Report: SP23-00578.006 Reissue: 6**** This Report cancels and supersedes the Report No. SP23-00578.006****Dated 23/Jun/2023 issued by SGS.****Lohrhof GmbH
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264095223

CLIENT ORDER NUMBER :		SGS ORDER NO.:	72806967_6524283
CLIENT ID :	Super 95 Oktan	PRODUCT DESCRIPTION :	Gasoline
SAMPLE SOURCE :	Petrol pump	SOURCE ID :	5
SAMPLE TYPE :	As submitted	SAMPLED BY :	SGS
SAMPLED :	--	RECEIVED :	17/Apr/2023
ANALYSED :	19/Apr/2023 - 03/Mai/2023	COMPLETED :	03/Mai/2023
SUB-SAMPLE :	[1: 5 Litre Can]		
REPORT COMMENT :	Zum Abgleich wurden die Limits der Spezifikation EN228 genutzt.		

The limits of the EN228 specification were used for comparison.

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Density at 15°C	DIN EN ISO 12185:1997	752,5 kg/m³	720,0	775,0
Knock Characteristics of Motor Fuels - Research Method	DIN EN ISO 5164:2014			
Research Octane Number		96,7 Rating	--	--
Research Octane Number (EN 228 corrected)		96,5 Rating	95,0	--
Knock Characteristics of Motor and Aviation Fuels - Motor Method	DIN EN ISO 5163:2014			
Motor Octane Number		85,6 Rating	--	--
Motor Octane Number (EN 228 corrected)		85,4 Rating	85,0	--
Distillation at Atmospheric Pressure	DIN EN ISO 3405:2019-09			
Initial boiling point (IBP)		35,1 °C	--	--
Evaporated at 70°C		31,9 % (v/v)	20,0	48,0
Evaporated at 100°C		49,5 % (v/v)	46,0	71,0
Evaporated at 130°C		73,6 % (v/v)	--	--
Evaporated at 150°C		85,4 % (v/v)	75,0	--
Evaporated at 170°C		93,6 % (v/v)	--	--
Evaporated at 180°C		96,2 % (v/v)	--	--
Final boiling point (FBP)		197,9 °C	--	210
Residue		1,0 % (v/v)	--	2
5% Evaporated at		47,1 °C	--	--
10% Evaporated at		51,4 °C	--	--
20% Evaporated at		56,9 °C	--	--
30% Evaporated at		66,3 °C	--	--
40% Evaporated at		85,5 °C	--	--

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
50% Evaporated at		100,6 °C	--	--
60% Evaporated at		112,7 °C	--	--
70% Evaporated at		125,1 °C	--	--
80% Evaporated at		140,1 °C	--	--
90% Evaporated at		158,7 °C	--	--
95% Evaporated at		175,0 °C	--	--
Gum Content of Light and Middle Distillate Fuels -	DIN EN ISO 6246:2020-01			
Jet Evaporation				
Gum (unwashed)		18,5 mg/100mL	--	--
Gum (solvent-washed)		0,5 mg/100mL	--	5
Copper Strip corrosion (3 h / 50 °C)	DIN EN ISO 2160:1999	1a Rating	--	1
Water Content by Coulometric KF	DIN EN ISO 12937:2002	0,025 % (m/m)	--	--
Sulfur	DIN EN ISO 20846:2019-12	5,4 mg/kg	--	10,0
Appearance *	Visual	Clear, bright, free from solid matter and undissolved water	--	--
Color *	Visual	Yellow	--	--
Elements in Gasoline - ICP-OES *	SGS M2533			
Silicon *		<0,1 mg/kg	--	--
Iron *		<0,1 mg/kg	--	--
Aluminium *		<0,1 mg/kg	--	--
Copper *		<0,1 mg/kg	--	--
Lead *		<0,1 mg/kg	--	--
Tin *		<0,1 mg/kg	--	--
Chromium *		<0,1 mg/kg	--	--
Nickel *		<0,1 mg/kg	--	--
Zinc *		<0,1 mg/kg	--	--
Phosphorus *		<0,1 mg/kg	--	--
Magnesium *		<0,1 mg/kg	--	--
Calcium *		<0,1 mg/kg	--	--
Sodium *		<0,1 mg/kg	--	--
Molybdenum *		<0,1 mg/kg	--	--

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Barium *		<0,1 mg/kg	--	--
Potassium *		<0,1 mg/kg	--	--
Titanium *		<0,1 mg/kg	--	--
Vanadium *		<0,1 mg/kg	--	--
Boron *		<0,1 mg/kg	--	--
Manganese *		<0,1 mg/kg	--	--
Cadmium *		<0,1 mg/kg	--	--
Silver *		<0,1 mg/kg	--	--
Cobalt *		<0,1 mg/kg	--	--
Lithium *		<0,1 mg/kg	--	--

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Member of the SGS Group (Société Générale de Surveillance)

Geschäftsführer: Dr. Tomasz P. Bednarczyk, Sitz der Gesellschaft: Hamburg, HRB 4951 Amtsgericht Hamburg, Aufsichtsratsvorsitzender: Malcolm Reid

Date: 10/Apr/2024

Analytical Report: SP23-00578.007 Reissue: 6**** This Report cancels and supersedes the Report No. SP23-00578.007****Dated 23/Jun/2023 issued by SGS.****Lohrhof GmbH
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264095223

CLIENT ORDER NUMBER :		SGS ORDER NO.:	72806967_6524283
CLIENT ID :	Super 95 Oktan + FeroxTM	PRODUCT DESCRIPTION :	Gasoline - Super 95 Oktan + FeroxTM der Fa. Rennsli Corp
SAMPLE SOURCE :	Petrol pump	SOURCE ID :	5
SAMPLE TYPE :	As submitted	SAMPLED BY :	SGS
SAMPLED :	--	RECEIVED :	17/Apr/2023
ANALYSED :	24/Apr/2023 - 03/Mai/2023	COMPLETED :	03/Mai/2023
SUB-SAMPLE :	[1: 5 Litre Can]		
SAMPLE COMMENT :	Mischungsverhältnis: xxx g FeroxTM auf 4,92l Super 95 Oktan		
REPORT COMMENT :	Zum Abgleich wurden die Limits der Spezifikation EN228 genutzt.		

The limits of the EN228 specification were used for comparison.

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Density at 15°C	DIN EN ISO 12185:1997	752,9 kg/m³	720,0	775,0
Knock Characteristics of Motor Fuels - Research Method	DIN EN ISO 5164:2014			
Research Octane Number		97,0 Rating	--	--
Research Octane Number (EN 228 corrected)		96,8 Rating	95,0	--
Knock Characteristics of Motor and Aviation Fuels - Motor Method	DIN EN ISO 5163:2014			
Motor Octane Number		85,5 Rating	--	--
Motor Octane Number (EN 228 corrected)		85,3 Rating	85,0	--
Distillation at Atmospheric Pressure	DIN EN ISO 3405:2019-09			
Initial boiling point (IBP)		36,3 °C	--	--
Evaporated at 70°C		31,0 % (v/v)	20,0	48,0
Evaporated at 100°C		49,1 % (v/v)	46,0	71,0
Evaporated at 130°C		73,3 % (v/v)	--	--
Evaporated at 150°C		85,1 % (v/v)	75,0	--
Evaporated at 170°C		93,5 % (v/v)	--	--
Evaporated at 180°C		96,1 % (v/v)	--	--
Final boiling point (FBP)		197,8 °C	--	210
Residue		1,0 % (v/v)	--	2
5% Evaporated at		48,1 °C	--	--
10% Evaporated at		52,1 °C	--	--
20% Evaporated at		57,8 °C	--	--

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Date: 10/Apr/2024

Analytical Report: SP23-00578.007 Reissue: 6**** This Report cancels and supersedes the Report No. SP23-00578.007****Dated 23/Jun/2023 issued by SGS.****Lohrhof GmbH
Waidach 124/1
Adnet
AUSTRIA
5421**Reissue Comment: change to english language**

This laboratory is accredited under ISO/IEC 17025. The results reported herein have been performed in accordance with the laboratory's term of accreditation except tests marked with an asterisk (*) in this report which are not within the scope of accreditation for our laboratory.

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
30% Evaporated at		68,2 °C	--	--
40% Evaporated at		86,5 °C	--	--
50% Evaporated at		101,1 °C	--	--
60% Evaporated at		113,2 °C	--	--
70% Evaporated at		125,7 °C	--	--
80% Evaporated at		140,5 °C	--	--
90% Evaporated at		160,3 °C	--	--
95% Evaporated at		175,2 °C	--	--
Gum Content of Light and Middle Distillate Fuels -	DIN EN ISO 6246:2020-01			
Jet Evaporation				
Gum (unwashed)		18,5 mg/100mL	--	--
Gum (solvent-washed)		<0,5 mg/100mL	--	5
Copper Strip corrosion (3 h / 50 °C)	DIN EN ISO 2160:1999	1a Rating	--	1
Water Content by Coulometric KF	DIN EN ISO 12937:2002	0,027 % (m/m)	--	--
Sulfur	DIN EN ISO 20846:2019-12	5,2 mg/kg	--	10,0
Appearance *	Visual	Clear, bright, free from solid matter and undissolved water	--	--
Color *	Visual	Yellow	--	--
Elements in Gasoline - ICP-OES *	SGS M2533			
Silicon *		<0,1 mg/kg	--	--
Iron *		0,5 mg/kg	--	--
Aluminium *		<0,1 mg/kg	--	--
Copper *		<0,1 mg/kg	--	--
Lead *		<0,1 mg/kg	--	--
Tin *		<0,1 mg/kg	--	--
Chromium *		<0,1 mg/kg	--	--
Nickel *		<0,1 mg/kg	--	--
Zinc *		<0,1 mg/kg	--	--
Phosphorus *		<0,1 mg/kg	--	--
Magnesium *		<0,1 mg/kg	--	--
Calcium *		<0,1 mg/kg	--	--

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PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Sodium *		<0,1 mg/kg	--	--
Molybdenum *		<0,1 mg/kg	--	--
Barium *		<0,1 mg/kg	--	--
Potassium *		<0,1 mg/kg	--	--
Titanium *		<0,1 mg/kg	--	--
Vanadium *		<0,1 mg/kg	--	--
Boron *		<0,1 mg/kg	--	--
Manganese *		<0,1 mg/kg	--	--
Cadmium *		<0,1 mg/kg	--	--
Silver *		<0,1 mg/kg	--	--
Cobalt *		<0,1 mg/kg	--	--
Lithium *		<0,1 mg/kg	--	--
** End of Analytical Results **				

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