



# EC CERTIFICATE

## Lorne Laboratories Ltd

Unit 1 Cutbush Park Industrial Estate,  
Danehill, Lower Earley, Berkshire RG6 4UT, UK

## EC Certificate - Full Quality Assurance System Approval Certificate

Annex IV, (excluding sections 4 and 6) of Council Directive 98/79/EC on In Vitro  
Diagnostic Medical Devices

Scope of Certificate:

**The design and manufacture of in vitro diagnostic reagents for  
identification of blood groups**

Device Classification:

**Annex II, List A and B**

Device Descriptions:

**Please refer to Attachment 1**

Model:

**Please refer to Attachment 1**

File Number A12241  
Certificate No. 354.170425

Cycle Start Date 23 May 2017  
Effective Date 23 May 2017  
Expiry Date 22 May 2022

Authorised by

**B. Rodgers**  
**Certification Manager**  
For and on Behalf of UL International (UK) Ltd

We hereby declare that an examination of the full quality assurance system has been carried out per report 11640248, following the requirements of the national legislation to which the undersigned is subject, transposing Annex IV (with the exemption of sections 4 and 6) of Council Directive 98/79/EC on In Vitro Diagnostic Medical Devices. We certify that the full quality assurance system conforms with the relevant provisions of the aforementioned directive and is subject to periodic surveillance as required by 98/79/EC, Annex IV, Section 5. For Annex II, List A devices where they are covered by this certificate, an EC Design Examination certificate according to 98/79/EC, Annex IV, Section 4 is required. This certificate is issued with 1 attachment listing model numbers.

**Notified Body**

**0843**



# EC CERTIFICATE

## Lorne Laboratories Ltd

Unit 1 Cutbush Park Industrial Estate,  
Danehill, Lower Earley, Berkshire RG6 4UT, UK

### Attachment 1 of 1

The products detailed below are covered under the scope of this certificate

Device Description	Model	Classification
Anti-A Monoclonal	600005/600010/600000	Annex II List A
Anti-B Monoclonal	610005/610010/610000	Annex II List A
Anti-A,B Monoclonal	620005/620010/620000	Annex II List A
Anti-C Monoclonal	690005	Annex II List A
Anti-E Monoclonal	691005	Annex II List A
Anti-c Monoclonal	692005	Annex II List A
Anti-e Monoclonal	693005	Annex II List A
Anti-K Monoclonal	760005/760010	Annex II List A
Anti-D Clone 2 Monoclonal	710010/710000	Annex II List A
Anti-D Clone 1 Monoclonal	730010/730000	Annex II List A
Anti-D Duoclonal Monoclonal	740010/740000	Annex II List A
Anti-Jka Polyclonal	323002/323000	Annex II List B
Anti-Jkb Polyclonal	324002/324000	Annex II List B
Anti-Fyb Polyclonal	317002/317000	Annex II List B
AHG Elite Clear	415010/415100/415000	Annex II List B
AHG Elite Green	435010/435100/435000	Annex II List B
Anti-Fya Monoclonal	774000/774002	Annex II List B
Anti-C+D+E Monoclonal	700005/700010/700000	Annex II List A
Anti-Human IgG Clear	401010/401000	Annex II List B
Anti-Human IgG Green	402010/402000	Annex II List B
Monoclonal Rh Control	640010	Annex II List A
Monoclonal D Negative Control	650010	Annex II List A

File Number A12241  
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Authorised by

**B. Rodgers**  
**Certification Manager**  
For and on Behalf of UL International (UK) Ltd

**Notified Body**

**0843**



# CERTIFICATE OF REGISTRATION

## Lorne Laboratories Ltd

Unit 1 Cutbush Park Industrial Estate  
Danehill  
Lower Earley  
Berkshire RG6 4UT UNITED KINGDOM

UL LLC®(UL) issues this certificate to the Firm named above, after assessing the Firm's quality system and finding it in compliance with:

**ISO 13485:2016**

**EN ISO 13485:2016**

The manufacture of in vitro diagnostic blood grouping reagents. The purchase for resale of in vitro diagnostic serology test kit.

Authorized by



**Michael J. Windler, P.E.**

**Manager of Global Regulatory Service**  
Distinguished Member of the Technical Staff  
Life and Health Sciences, UL LLC



Check Certificate  
Status: [here](#)

File Number	A12241	Cycle Start	May 23, 2020
Certificate Number	1458.200523	Effective Date	May 23, 2020
Initial Issue Date	June 26, 2018	Expiry Date	May 22, 2023

This quality system registration is included in UL's Directory of Registered Firms and applies to the provision of goods and/or services as specified in the scope of registration from the address(es) shown above. By issuance of this certificate the firm represents that it will maintain its registration in accordance with the applicable requirements. This certificate is not transferable and remains the property of UL LLC.



UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062-2096 USA



# CERTIFICATE

**EC No 1434-IVDD-132/2019**  
**Full Quality Assurance System**

**Directive 98/79/EC on in vitro diagnostic medical devices**

Polish Centre for Testing and Certification certifies  
that the quality assurance system in the organization:

**Lorne Laboratories Ltd**

**Unit 1 Cutbush Park Industrial Estate, Danehill,  
Lower Earley, Berkshire RG6 4UT, United Kingdom**

for the design, manufacture and final inspection of in vitro diagnostic medical devices  
List B

**Products list in attachments: 1**

complies with requirements of Annex IV excluding section 4 and 6 to Directive 98/79/EC (as amended)  
implemented into Polish law, as evidenced by the audit conducted by the PCBC.

Validity of Certificate: from 10.04.2019 to 22.03.2022

The date of issue of the Certificate: 10.04.2019

The date of the first issue of the Certificate: 10.04.2019



Application No: 648/2019  
Module: H7

  
mgr Anna Wyroba  
Vice-President



Certificate No **1434-IVDD-132/2019**  
Issued under the Contract No **MD-59/2019**  
Bears the PCBC hologram.  
Warsaw, 10.04.2019





**ANNEX 1 TO CERTIFICATE**  
**VALID ONLY WITH CERTIFICATE**  
**No 1434-IVDD-132/2019**

The products detailed below are covered under the scope of this certificate:

**Name:**

**GMDN code:**

**Anti-Jka Polyclonal 323002**

**52586**

**Anti-Jkb Polyclonal 324002**

**52587**

**Anti-Fyb Polyclonal 317002**

**52570**

**AHG Elite Clear 415010**

**52731**

**AHG Elite Green 435010**

**52731**

**Anti-Fya Monoclonal 774002**

**52569**

**Anti-Human IgG Clear 401010**

**45811**

**Anti-Human IgG Green 402010**

**45811**

**Anti-Jka Monoclonal 775002**

**52586**

**Anti-Jkb Monoclonal 776002**

**52587**



  
mgr Anna Wyroba  
Vice-President



Annex 1 to certificate No. **1434-IVDD-132/2019**  
Issued under the Contract No. **MD-59/2019**  
Bears the PCBC hologram.  
Warsaw, 10.04.2019



**LORNE LABORATORIES LTD**  
**RELEASE PROTOCOL**

**CE**  
**1434**

**PRODUCT:** Anti-D Duoclon Monoclonal Blood Grouping Reagent  
**LOT NUMBER:** 740177-C1 and all sub-lots (i.e. 740177-C2, 740177-C3, 740177-C4, etc)  
**MANUFACTURE DATE:** 2020-12-10  
**EXPIRY DATE:** 2023-06-10  
**PRESERVATIVE:** <0.1% Sodium Azide w/v  
**DYE:** None  
**STERILITY:** Product filtered through a sterile 0.2 µm filter  
**STORAGE:** Refrigerate at 2 – 8°C  
**MICRO TESTING:** Source materials used to produce this lot were tested at source and found to be non-reactive for anti-HIV 1+2, anti-HCV and HBsAg.

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<b>POTENCY:</b>	<b>Tube Test</b>	<b>BioVue Card</b>	<b>DiaMed Card</b>	<b>Microplate</b>
<b>O R<sub>1</sub>r Cells</b>	1 in 128	1 in 256	1 in 512	1 in 64

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<b>AVIDITY:</b> (1st sign of agglutination)	<b>O R<sub>1</sub>r Cells</b>	6 seconds	<b>R<sub>2</sub>r Cells</b>	5 seconds
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<b>SPECIFICITY:</b>	<b>Positive Phenotypes</b>	<b>Negative Phenotypes</b>
<b>O R<sub>1</sub>r Cells</b>	Grade 5	<b>r'r Cells</b> Negative
<b>R<sub>2</sub>r Cells</b>	Grade 5	<b>r''r Cells</b> Negative
<b>Weak D (D<sup>u</sup>) Cells</b>	Grade 4	<b>rr Cells</b> Negative
<b>Variant D<sup>v</sup> Cells</b>	Grade 5	

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**QUALITY CONTROL:** This lot of Anti-D Duoclon conforms to the specifications stated in the current issue of "The Guidelines for the Blood Transfusion Services in the UK" and the Common Technical Specifications (CTS)

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**RELEASED BY:**   
(Laboratory Manager or Nominee)

**DATE:** 18 January 2021

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# CERTIFICATE

**Certificate No. 1434-V-024/2021**

**Product Verification**

**Directive 98/79/EC concerning  
*in vitro* diagnostic medical devices**

Polish Centre for Testing and Certification certifies  
that the device manufactured by:

**Lorne Laboratories Ltd  
Unit 1 Cutbush Park Industrial Estate  
Danehill  
Lower Earley  
Berkshire RG6 4UT UNITED KINGDOM**

i.e. *in vitro* diagnostic medical device List A

**Anti-D Duoclone Monoclonal 740010**

**LOT number: 740177-C1 inc. all sub-lots produced according to Lorne procedure GENSOP0102**

**Lot size: 10000 x 10mL**

**Date of expiry: 10-06-2023**

**Name of the laboratory: N/A**

**Number of the report/opinion/declaration: N/A**

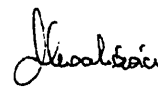
**Date of the report: 14-01-2021**

Complies with requirements  
of Annex IV (Section 6) to Directive 98/79/EC (as amended)  
implemented into Polish law

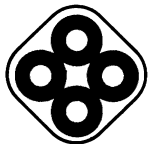
The date of issue of the Certificate: 15-01-2021



Contract No: MD-59/2019

  
Elektronicznie  
podpisany przez  
Monika Elzbieta  
Mroczkiewicz  
Data: 2021.01.15  
08:19:11 +01'00'

**Deputy Director  
Medical Devices Certification  
Department**



## LORNE LABORATORIES LTD

Unit 1 Cutbush Park Industrial Estate  
Danehill, Lower Earley, Berkshire, RG6 4UT  
United Kingdom

Phone: +44 (0) 118 921 2264  
Fax: +44 (0) 118 986 4518  
Email: info@lornelabs.com



### CERTIFICATE OF ANALYSIS

DESCRIPTION	LOT NO.	EXPIRY	PRODUCT CODE
LE Latex Kit	315040	2022-06	840050

**STORAGE:** Refrigerated at 2 – 8°C. Protect from light. Do not freeze.

**SHIPPING:** This product has data supporting stability tolerance during fluctuations in ambient shipping temperature.

This product is in compliance with **MEDICAL DEVICES REGULATIONS 2002** for Annex 3 and Self-Certification. This product was manufactured, packaged and tested in accordance with **LORNE QUALITY SYSTEMS** and meets all product specifications.

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**We certify that this product has been released as meeting all our acceptance criteria**

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If applicable:

- Components from human origin have been tested and found negative for the presence of antibody to HIV as well as HBsAg and HCV. However handle cautiously as potentially infectious.
- This product was tested by methods described in the manufacturers package insert.
- This product is intended for **In Vitro** Diagnostic use only.
- This product contains <0.1% sodium azide.

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**APPROVED BY:**

**Eddy Velthuis**  
Technical Director

**DATE:** 19 January 2021

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# SAFETY DATA SHEET

Document reference number: MSDS460/470

Issue number: 3/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product code(s) & Product Name 460 LISS Concentrate  
470 LISS Ready for Use  
CAS No. Mixture  
EINECS No. Mixture  
Product Description A clear, colourless solution containing 0.1% sodium azide (LISS Concentrate) or 0.01% sodium azide (LISS Ready for Use), Glycine and Sodium salts.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) Potentiating agent in blood group serology.  
Uses Advised Against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification Lorne Laboratories Ltd  
Unit 1 Cutbush Park Industrial Estate  
Danehill  
Lower Earley  
Berkshire RG6 4UT  
United Kingdom  
Telephone +44(0) 0118 921 2264  
Fax +44(0) 0118 986 4518  
E-Mail (competent person) [Info@lornelabs.com](mailto:Info@lornelabs.com)
- 1.4 Emergency telephone number** +44(0) 0118 921 2264  
Available 0900 – 1700 (GMT)  
Languages spoken English

## 2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Not classified as hazardous for supply/use.
- 2.2 Label elements** According to Regulation (EC) No. 1272/2008 (CLP)
- Hazard Pictogram(s) None assigned
- Signal Word(s) None assigned
- Hazard Statement(s) None assigned
- Precautionary Statement(s) None assigned
- 2.3 Other hazards** None known.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Sodium Azide	0.1 - 0.01	26628-22-8	247-852-1	Not yet assigned in the supply chain	Acute Tox. 2; H300 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

# SAFETY DATA SHEET

Document reference number: MSDS460/470

Issue number: 3/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Remove from exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep warm and at rest. Get medical advice/attention if you feel unwell.

Skin Contact

Wash affected skin with soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth. Give plenty of water to drink. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing Media

Non-flammable. As appropriate for surrounding fire. Water spray, foam, dry powder or CO<sub>2</sub>.

Unsuitable extinguishing Media

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic vapours.

### 5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Avoid all contact. Do not allow run-off from fire fighting to enter drains or water courses.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid all contact. Ensure suitable personal protection during removal of spillages. See Section: 8

### 6.2 Environmental precautions

Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Absorb spillage in suitable inert material. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Avoid release to the environment.

### 6.4 Reference to other sections

See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid all contact. Use personal protective equipment as required. Ensure adequate ventilation. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Storage temperature is at ambient room temperature.

Storage life

Keep only in the original container/package in a well-ventilated place.

Incompatible materials

None known.

### 7.3 Specific end use(s)

See Section: 1.2

# SAFETY DATA SHEET

Document reference number: MSDS460/470

Issue number: 3/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

None assigned.

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

Not established.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Good hygiene practices and housekeeping measures.

#### 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Use personal protective equipment as required. Avoid all contact. Keep good industrial hygiene. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection



Not normally required. Recommended: Wear eye protection with side protection (EN166).

Skin protection



Prolonged, direct contact: Wear impervious gloves (EN374).

Respiratory protection



Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment should conform to the appropriate EN standard.

Thermal hazards

None anticipated.

#### 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid, colourless
Odour	Not established.
Odour Threshold	Not established.
pH	6.7
Melting Point/Freezing Point	Not established.
Initial boiling point and boiling range	Not established.
Flash Point	Not established.
Evaporation Rate	Not established.
Flammability (solid, gas)	Not established.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not established.
Vapour density	Not established.
Relative density	Not established.
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	Not established.
Auto-ignition temperature	Not established.
Decomposition Temperature	Not established.
Viscosity	Not established.
Explosive properties	Not explosive

# SAFETY DATA SHEET

Document reference number: MSDS460/470

Issue number: 3/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

Oxidising properties

Not oxidising.

9.2 Other information

None known.

## 10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable for 12 months after the date of production when stored at ambient room temperature.
10.3	Possibility of hazardous reactions	None known. Hazardous polymerisation will not occur.
10.4	Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
10.5	Incompatible materials	Strong acids, strong oxidizing agents.
10.6	Hazardous decomposition product(s)	Combustion or thermal decomposition will evolve toxic vapours.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	
	Acute toxicity	
	Ingestion	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
	Inhalation	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >20 mg/l.
	Skin Contact	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
	Skin corrosion/irritation	Based on available data, the classification criteria are not met.
	Serious eye damage/irritation	Based on available data, the classification criteria are not met.
	Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity	Based on available data, the classification criteria are not met.
	Carcinogenicity	Based on available data, the classification criteria are not met.
	Reproductive toxicity	Based on available data, the classification criteria are not met.
	STOT - single exposure	Based on available data, the classification criteria are not met.
	STOT - repeated exposure	Based on available data, the classification criteria are not met.
	Aspiration hazard	Based on available data, the classification criteria are not met.
11.2	Other information	None known.

## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Based on available data, the classification criteria are not met. Estimated LC50 (96 hour) Fish > 100 mg/l
12.2	Persistence and degradability	Not established. Some of the ingredients are expected to be resistant to biodegradation.
12.3	Bioaccumulative potential	Not established. Predicted to be unlikely.
12.4	Mobility in soil	The product has high mobility in soil. Miscible with water.
12.5	Results of PBT and VPVB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	Other adverse effects	None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Disposal should be in accordance with local, state or national legislation.
13.2	Additional Information	Empty containers may contain hazardous residues. Containers shall be disposed of by incineration as soon as possible.



# SAFETY DATA SHEET

Document reference number: MSDS460/470

Issue number: 3/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

## 14. SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None assigned.	None assigned.	None assigned.
14.2 UN proper shipping name	None assigned.	None assigned.	None assigned.
14.3 Transport hazard class(es)	None assigned.	None assigned.	None assigned.
14.4 Packing group	None assigned.	None assigned.	None assigned.
14.5 Environmental hazards	Not classified.	Not classified.	Not classified.
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Not applicable.	Not applicable.
14.8 Additional Information	None.		

## 15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or Restrictions On Use	None.
15.1.2	National regulations	
	Germany	Water hazard class: 1
15.2	Chemical Safety Assessment	None.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS).

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### Disclaimers

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customers' responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken. The use of the reagent and the interpretation of results must be carried out by properly trained and qualified personnel in accordance with the requirements of the country where the reagent is in use.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Lorne Laboratories Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Lorne Laboratories Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

### Annex to the extended Safety Data Sheet (eSDS)

Not applicable

## **SAFETY DATA SHEET**

Document reference number: MSDS460/470

Issue number: 3/08/2015



**ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830**

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### **Date of First Issue**

28 August 2001

# SAFETY DATA SHEET

Document reference number: MSDSAHGGreen

Issue number: 4/08/2015



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product code(s) & Product Name

435 AHG Elite (Green)

CAS No.

Mixture

EINECS No.

Mixture

Product Description

A solution of clone BRIC-8 (specific Anti-C3d antibody derived from culture supernatants of antibody producing human hybridoma cell lines) and rabbit anti-human IgG diluted in a solution containing various salts, bovine serum albumin, sodium azide, Tartrazine yellow and Patent Blue V.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)

Identification of blood groups on human red cells.

Uses Advised Against

Anything other than the above.

### 1.3 Details of the supplier of the safety data sheet

Company Identification

Lorne Laboratories Ltd  
Unit 1 Cutbush Park Industrial Estate  
Danehill  
Lower Earley  
Berkshire RG6 4UT  
United Kingdom

Telephone

+44(0) 0118 921 2264

Fax

+44(0) 0118 986 4518

E-Mail (competent person)

[Info@lornelabs.com](mailto:Info@lornelabs.com)

### 1.4 Emergency telephone number

+44(0) 0118 921 2264

Languages spoken

Available 0900 – 1700 (GMT)  
English

## 2. SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Not classified as hazardous for supply/use.

### 2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Hazard Pictogram(s)

None assigned

Signal Word(s)

None assigned

Hazard Statement(s)

None assigned

Precautionary Statement(s)

None assigned

### 2.3 Other hazards

None known.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Sodium Azide	0.09	26628-22-8	247-852-1	Not yet assigned in the supply chain	Acute Tox. 2; H300 Aquatic Acute 1; H400

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					Aquatic Chronic 1; H410
Rabbit plasma	3 - 7	Not applicable	Not applicable	Not yet assigned in the supply chain	Not hazardous

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Remove from exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep warm and at rest. Get medical advice/attention if you feel unwell.

Skin Contact

Wash affected skin with soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth. Give plenty of water to drink. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing Media

Non-flammable. As appropriate for surrounding fire. Water spray, foam, dry powder or CO<sub>2</sub>.

Unsuitable extinguishing Media

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic vapours.

### 5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Avoid all contact. Do not allow run-off from fire fighting to enter drains or water courses.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid all contact. Ensure suitable personal protection during removal of spillages. See Section: 8

### 6.2 Environmental precautions

Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Absorb spillage in suitable inert material. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Avoid release to the environment.

### 6.4 Reference to other sections

See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid all contact. Use personal protective equipment as required. Ensure adequate ventilation. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Human source materials from which these products are derived have been tested and found negative for HBsAg and antibodies to HIV1, HIV2 and HCV. No known

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## 7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Storage life

Incompatible materials

## 7.3 Specific end use(s)

test method can guarantee that products derived from human or animal sources will not transmit infectious agents.

Keep only in the original container/package in a cool well-ventilated place. Keep away from food, drinks and animal food.

Storage temperature should be controlled to between 2 and 8°C.

Keep only in the original container/package in a cool well-ventilated place.

None known.

See Section: 1.2

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Source
Sodium azide (as NaN <sub>3</sub> )	26628-22-8	-	0.1	-	0.3	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

Not established.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Good hygiene practices and housekeeping measures.

#### 8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Use personal protective equipment as required. Avoid all contact. Keep good industrial hygiene. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection



Not normally required. Recommended: Wear eye protection with side protection (EN166).

Skin protection



Prolonged, direct contact: Wear impervious gloves (EN374).

Respiratory protection



Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment should conform to the appropriate EN standard.

Thermal hazards

None anticipated.

#### 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance

Liquid, green coloured.

Odour

Not established.

Odour Threshold

Not established.

pH

7

Melting Point/Freezing Point

Not established.

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Initial boiling point and boiling range	Not established.
Flash Point	Not established.
Evaporation Rate	Not established.
Flammability (solid, gas)	Not established.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not established.
Vapour density	Not established.
Relative density	Not established.
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	Not established.
Auto-ignition temperature	Not established.
Decomposition Temperature	Not established.
Viscosity	Not established.
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

**9.2 Other information** None known.

## 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable for 24 months after the date of production when stored at between 2 and 8°C.
<b>10.3 Possibility of hazardous reactions</b>	None known. Hazardous polymerisation will not occur.
<b>10.4 Conditions to avoid</b>	Keep away from heat, sources of ignition and direct sunlight.
<b>10.5 Incompatible materials</b>	None known.
<b>10.6 Hazardous decomposition product(s)</b>	Combustion or thermal decomposition will evolve toxic vapours.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects (Substances in preparations / mixtures)</b>	
<b>Acute toxicity</b>	
Ingestion	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >5000 mg/kg bw/day
Inhalation	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >20 mg/l.
Skin Contact	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>11.2 Other information</b>	None known.

## 12. SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Based on available data, the classification criteria are not met. Estimated LC50 (96 hour) Fish > 100 mg/l
<b>12.2 Persistence and degradability</b>	Not established. Some of the ingredients are expected to be resistant to biodegradation.
<b>12.3 Bioaccumulative potential</b>	Not established. Predicted to be unlikely.
<b>12.4 Mobility in soil</b>	The product has high mobility in soil. Miscible with water.
<b>12.5 Results of PBT and VPvB assessment</b>	Not classified as PBT or vPvB. None of the substances in this product fulfil the



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## 12.6 Other adverse effects

criteria for being regarded as a PBT or vPvB substance.  
None known.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation.

### 13.2 Additional Information

Empty containers may contain hazardous residues. Containers shall be disposed of by incineration as soon as possible.

## 14. SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None assigned.	None assigned.	None assigned.
14.2 UN proper shipping name	None assigned.	None assigned.	None assigned.
14.3 Transport hazard class(es)	None assigned.	None assigned.	None assigned.
14.4 Packing group	None assigned.	None assigned.	None assigned.
14.5 Environmental hazards	Not classified.	Not classified.	Not classified.
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Not applicable.	Not applicable.
14.8 Additional Information	None.		

## 15. SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1 EU regulations

Authorisations and/or Restrictions On Use

None.

#### 15.1.2 National regulations

Germany

Water hazard class: Not hazardous

### 15.2 Chemical Safety Assessment

None.

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**References:** Existing Safety Data Sheet (SDS). Existing ECHA registration for Sodium Azide (CAS No. 26628-22-8).

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### Disclaimers

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customers' responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken. The use of the reagent and the interpretation of results must be carried out by properly trained and qualified personnel in accordance with the requirements of the country where the reagent is in use.

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### **Annex to the extended Safety Data Sheet (eSDS)**

Not applicable

### **Date of First Issue**

21 August 2001