SAFETY DATA SHEET

Document reference number: SDS155A Rose Bengal Reagent
Issue number: REV 2 / SEP 2025

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

LORNE LABORATORIES
A CALIBRE SCIENTIFIC COMPANY

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

1.1 Product identifier

Product code(s) & Product Name	155050A Rose Bengal Reagent
CAS No.	Mixture
EINECS No.	Mixture
Product Description	A suspension of Brucella abortus strain S99 particles stained with Rose Bengal in a lactate buffer, pH 3.6, to which is added a preservative

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

Identified Use(s)	Detection of anti-Brucella antibodies in human serum/plasma
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

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1C H314
Serious eye damage/eye irritation, Category 1 H318
Skin sensitization, Category 1 H317 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

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

Hazard Pictograms (CLP)

GHS05 GHS07

Signal word (CLP): Danger

Contains: 2-Methyl-2H-isothiazol-3-one (Proclin 950)

Hazard statements (CLP):
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction

Precautionary statements (CLP)	P260 - Do not breathe vapours P264 - Wash hands thoroughly after handling P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3 Other hazards

Other hazards which do not result in classification	Contains material from animal origin. No known test method can guarantee that products derived from human or animal sources will not transmit infectious agents. It is recommended that this product and assay material are handled as a potential biohazard

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

Name	Product identifier	Conc. (%)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid	CAS-No.: 79-33-4 EC-No.: 201-196-2 EC Index-No.: 607-743-00-5	7 – 10	Skin Corr. 1C, H314 Eye Dam. 1, H318
Phenol substance with a Community workplace exposure limit	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2	0.5 – 1	Muta. 2, H341 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Skin Corr. 1B, H314
2-methylisothiazol-3(2H)-one (PROCLIN 950)	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium Azide	CAS-No: 26628-22-8 EC No: 247-852-1	0.095	Acute Tox. 2; H300 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. (%))
Phenol	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2	(1 ≤ C < 3) Eye Irrit. 2; H319 (1 ≤ C < 3) Skin Irrit. 2; H315 (3 ≤ C < 100) Skin Corr. 1B; H314
2-methylisothiazol-3(2H)-one (PROCLIN 950)	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317

Full text of H- and EUH-statements: See section 16

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)

Inhalation: Allow affected person to breathe fresh air. Allow the victim to rest

Skin Contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse

Eye Contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: Foam. Dry powder. Carbon dioxide. Water spray. Sand

Unsuitable extinguishing Media: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate unnecessary personnel
For emergency responders	
Protective equipment	Equip cleanup crew with proper protection
Emergency procedures	Ventilate area

6.2 Environmental precautions — Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

6.3 Methods and material for containment and cleaning up — Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials

6.4 Reference to other sections — See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling — Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container in a cool, well-ventilated place away from : Heat sources. Keep container closed when not in use
Incompatible products	Strong bases. Strong acids
Incompatible materials	Sources of ignition. Direct sunlight

7.3 Specific end use(s) — See Section: 1.2

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure and biological limit values

Sodium azide (26628-22-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Sodium azide
IOEL TWA	0.1 mg/m³
IOEL STEL	0.3 mg/m³
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Phenol (108-95-2)

EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Phenol
IOEL TWA	8 mg/m³
	2 ppm
IOEL STEL	16 mg/m³
	4 ppm
Remark	skin

8.2 Exposure controls

Personal protective equipment: Avoid all unnecessary exposure

Personal protective equipment symbol(s):

Eye/face protection — Chemical goggles or safety glasses

Skin protection — Wear protective gloves

Respiratory protection — Wear appropriate mask

Environmental Exposure Controls: Do not eat, drink or smoke during use

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid, bright pink
Odour	Pungent
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Non flammable
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	3.5 – 3.7
Viscosity, kinematic	Not available
Solubility	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available

Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	Not available
Relative density	Not available
Relative vapour density at 20°C	Not available
Particle characteristics	Not applicable

9.2 Other information No additional information available

10. SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	No additional information available
10.2	**Chemical stability**	Not established
10.3	**Possibility of hazardous reactions**	Not established
10.4	**Conditions to avoid**	Direct sunlight. Extremely high or low temperatures
10.5	**Incompatible materials**	Not known when used appropriately
10.6	**Hazardous decomposition product(s)**	No hazardous decomposition products known

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Causes severe skin burns pH: 3.5 – 3.7
Additional information	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye damage pH: 3.5 – 3.7
Additional information	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	May cause an allergic skin reaction
Additional information	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met
Carcinogenicity	Not classified. Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified. Based on available data, the classification criteria are not met
STOT - single exposure	Not classified. Based on available data, the classification criteria are not met
STOT - repeated exposure	Not classified. Based on available data, the classification criteria are not met
Aspiration hazard	Not classified. Based on available data, the classification criteria are not met
Phenol (108-95-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure

11.2 Information on other hazards

Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous to the aquatic environment, short–term (acute)	Not classified
Hazardous to the aquatic environment, long–term (chronic)	Not classified

12.2 Persistence and degradability

Rose Bengal	Not established
Phenol (108-95-2)	Rapidly degradable
2-methylisothiazol-3(2H)-one (PROCLIN 950) (2682-20-4)	Rapidly degradable
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (79-33-4)	Rapidly degradable

12.3	**Bioaccumulative potential**	Not established
12.4	**Mobility in soil**	No additional information available
12.5	**Results of PBT and VPVB assessment**	No additional information available
12.6	**Endocrine disrupting properties**	No additional information available
12.7	**Other adverse effects**	Avoid release to the environment

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations
Ecological waste information	Avoid release to the environment

14. SECTION 14: TRANSPORT INFORMATION

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

In accordance with ADR / IMDG / IATA / ADN / RID

14.1 UN number

UN-No. (ADR)	UN 3265
UN-No. (IMDG)	UN 3265
UN-No. (IATA)	UN 3265
UN-No. (ADN)	UN 3265
UN-No. (RID)	UN 3265

14.2 UN proper shipping name

Proper Shipping Name (ADR)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	Corrosive liquid, acidic, organic, n.o.s.
Proper Shipping Name (ADN)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (RID)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport document description (ADR)	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Lactic acid), 8, III, (E)
Transport document description (IMDG)	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Lactic acid), 8, III
Transport document description (IATA)	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Contains Lactic acid), 8, III
Transport document description (ADN)	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Lactic acid), 8, III
Transport document description (RID)	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Contains Lactic acid), 8, III

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR)

Danger labels (ADR) 8

Transport hazard class(es) (IMDG)

Danger labels (ADR) 8

Transport hazard class(es) (IATA)	
Danger labels (IATA)	8

Transport hazard class(es) (ADN)	
Danger labels (ADN)	8

Transport hazard class(es) (RID)	
Danger labels (RID)	8

14.4 Packing group

Packing group (ADR)	III
Packing group (IMDG)	III
Packing group (IATA)	III
Packing group (ADN)	III
Packing group (RID)	III

14.5 Environmental hazards

Dangerous for the environment	No
Marine pollutant	No
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Other information	No supplementary information available

14.6 Special precautions for user

Overland transport

Classification code (ADR)	C3
Special provisions (ADR)	274
Limited quantities (ADR)	5l
Excepted quantities (ADR)	E1
Packing instructions (ADR)	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	MP19
Portable tank and bulk container instructions (ADR)	T7
Portable tank and bulk container special provisions (ADR)	TP1, TP28
Tank code (ADR)	L4BN
Vehicle for tank carriage	AT
Transport category (ADR)	3
Special provisions for carriage - Packages (ADR)	V12
	80

Hazard identification number (Kemler No.)	
Orange plates	
Tunnel restriction code (ADR)	E

Transport by sea

Special provisions (IMDG)	223, 274
Limited quantities (IMDG)	5 L
Excepted quantities (IMDG)	E1
Packing instructions (IMDG)	P001, LP01
IBC packing instructions (IMDG)	IBC03
Tank instructions (IMDG)	T7
Tank special provisions (IMDG)	TP1, TP28
Stowage category (IMDG)	A
Stowage and handling (IMDG)	SW2
Segregation (IMDG)	SGG1, SG36, SG49
Properties and observations (IMDG)	Causes burns to skin, eyes and mucous membranes

Air transport

PCA Excepted quantities (IATA)	E1
PCA Limited quantities (IATA)	Y841
PCA limited quantity max net quantity (IATA)	1L
PCA packing instructions (IATA)	852
PCA max net quantity (IATA)	5L
CAO packing instructions (IATA)	856
CAO max net quantity (IATA)	60L
Special provisions (IATA)	A3, A803
ERG code (IATA)	8L

Inland waterway transport

Classification code (ADN)	C3
Special provisions (ADN)	274
Limited quantities (ADN)	5 L
Excepted quantities (ADN)	E1
Carriage permitted (ADN)	T
Equipment required (ADN)	PP, EP
Number of blue cones/lights (ADN)	0

Rail transport

Classification code (RID)	C3
Special provisions (RID)	274
Limited quantities (RID)	5L
Excepted quantities (RID)	E1
Packing instructions (RID)	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	MP19
Portable tank and bulk container instructions (RID)	T7
Portable tank and bulk container special provisions (RID)	TP1, TP28
Tank codes for RID tanks (RID)	L4BN
Transport category (RID)	3
Special provisions for carriage – Packages (RID)	W12
Colis express (express parcels) (RID)	CE8
Hazard identification number (RID)	80

14.7	**Maritime transport in bulk according to IMO instruments**	Not applicable

15. SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2	**Chemical Safety Assessment**	No chemical safety assessment has been carried out

16. SECTION 16: OTHER INFORMATION

Indication of changes: Sections 1 - 16	Regulatory information
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1C	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method

The classification complies with : ATP 12

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.

Revision History

Revision	Date	Description
1	AUG 2020	Issue 1
2	SEP 2025	Issue 2