

Hazard Overview

Version 9.1
Revision Date 04/15/2026
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SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : Bovine IFNG / Interferon Gamma ELISA Kit

Product Number : RAB0520

Brand : Sigma

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Corrosive to metals : Category 1


Respiratory sensitisation : Category 1

Carcinogenicity : Category 2

Other hazards

None known.

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P234 Keep only in original packaging.
P261 Avoid breathing mist or vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.
P406 Store in a corrosion resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Please refer to component Safety Data Sheet and/or to Section 16 Kit components

SECTION 4. FIRST AID MEASURES

Refer to component SDS

SECTION 5. FIREFIGHTING MEASURES

Refer to component SDS

SECTION 6. ACCIDENTAL RELEASE MEASURES

Refer to component SDS

SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

Advice on safe handling : Work under hood. Do not inhale substance/mixture.
Avoid generation of vapours/aerosols.

Conditions for safe storage : No metal containers.

Further information on storage conditions : Tightly closed.
Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class : 10, Combustible liquids

Recommended storage temperature : -4 °F / -20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to component SDS

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to component SDS

SECTION 10. STABILITY AND REACTIVITY

Refer to component SDS

SECTION 11. TOXICOLOGICAL INFORMATION

Refer to component SDS

SECTION 12. ECOLOGICAL INFORMATION

Refer to component SDS

SECTION 13. DISPOSAL CONSIDERATIONS

Refer to component SDS

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 3264
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.
(sulphuric acid)
Class : 8
Packing group : III
Labels : Class 8 - Corrosive substances
Packing instruction (cargo : 856
aircraft)
Packing instruction : 852
(passenger aircraft)

IMDG-Code

UN number : UN 3264
Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(sulphuric acid)
Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations**49 CFR**

UN/ID/NA number : UN 3264
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.
(sulphuric acid)
Class : 8

Packing group : III
 Labels : Class 8 - Corrosive substances
 ERG Code : 154
 Marine pollutant : no
 Poison Inhalation Hazard : No

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ELISA Stop Solution (Item I)	7664-93-9	50000	50000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ELISA Stop Solution (Item I)	7664-93-9	50000	50000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Bovine IFNG Protein Standard, Lyophilized (Item C)	Not Assigned	
20X Wash Buffer (Item B)	Not Assigned	
HRP-Streptavidin (Item G)	Not Assigned	
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)	Not Assigned	
ELISA Stop Solution (Item I)	7664-93-9	
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	

SARA 311/312 Hazards : Acute Health Hazard
 Chronic Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Warning: Manufactured with ELISA Stop Solution (Item I), ELISA 5X Assay/Sample Diluent Buffer E (Item E2), a substance which harms public health and environment by destroying ozone in the upper atmosphere.

40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Ozone-Depletion Potential

7664-93-9

40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Ozone-Depletion Potential

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

ELISA Stop Solution (Item I)	7664-93-9	>= 90 - <= 100 %
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	>= 90 - <= 100 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

ELISA Stop Solution (Item I)	7664-93-9	>= 90 - <= 100 %
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	>= 90 - <= 100 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

ELISA Stop Solution (Item I)	7664-93-9	>= 90 - <= 100 %
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	>= 90 - <= 100 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

ELISA Stop Solution (Item I)	7664-93-9	>= 90 - <= 100 %
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	>= 90 - <= 100 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

ELISA Stop Solution (Item I)	7664-93-9	>= 90 - <= 100 %
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ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	>= 90 - <= 100 %
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This product contains the following priority pollutants related to the U.S. Clean Water Act:

ELISA Stop Solution (Item I)	7664-93-9	>= 90 - <= 100 %
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

20X Wash Buffer (Item B)		Not Assigned
HRP-Streptavidin (Item G)		Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)		Not Assigned
ELISA Stop Solution (Item I)	7664-93-9	
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)		Not Assigned
Bovine IFNG Protein Standard, Lyophilized (Item C)		Not Assigned

Pennsylvania Right To Know

20X Wash Buffer (Item B)		Not Assigned
HRP-Streptavidin (Item G)		Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)		Not Assigned
ELISA Stop Solution (Item I)	7664-93-9	
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)		Not Assigned
Bovine IFNG Protein Standard, Lyophilized (Item C)		Not Assigned

Maine Chemicals of High Concern

20X Wash Buffer (Item B)		Not Assigned
HRP-Streptavidin (Item G)		Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)		Not Assigned
ELISA Stop Solution (Item I)	7664-93-9	
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)		Not Assigned
Bovine IFNG Protein Standard, Lyophilized (Item C)		Not Assigned

Vermont Chemicals of High Concern

Bovine IFNG Protein Standard, Lyophilized (Item C)		Not Assigned
20X Wash Buffer (Item B)		Not Assigned
HRP-Streptavidin (Item G)		Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)		Not Assigned
ELISA Stop Solution (Item I)	7664-93-9	
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)		Not Assigned

Washington Chemicals of High Concern

Bovine IFNG Protein Standard, Lyophilized (Item C)		Not Assigned
20X Wash Buffer (Item B)		Not Assigned
HRP-Streptavidin (Item G)		Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)		Not Assigned

ELISA Stop Solution (Item I)	7664-93-9
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned

The components of this product are reported in the following inventories:

US TSCA : All substances listed as active on the TSCA inventory

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

Bovine IFNG Protein Standard, Lyophilized (Item C)	Not Assigned
20X Wash Buffer (Item B)	Not Assigned
HRP-Streptavidin (Item G)	Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)	Not Assigned
ELISA Stop Solution (Item I)	7664-93-9
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Bovine IFNG Protein Standard, Lyophilized (Item C)	Not Assigned
20X Wash Buffer (Item B)	Not Assigned
HRP-Streptavidin (Item G)	Not Assigned
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)	Not Assigned
ELISA Stop Solution (Item I)	7664-93-9
ELISA 5X Assay/Sample Diluent Buffer E (Item E2)	Not Assigned

SECTION 16. OTHER INFORMATION

Kit Components:

20X Wash Buffer (Item B)	Sigma	RABWASH4
ELISA 5X Assay/Sample Diluent Buffer B (Item E1)	Sigma	RABELADB
Biotinylated Bovine IFNG Detection Antibody (Item F)	Sigma	RAB0520F
Bovine IFNG Protein Standard, Lyophilized (Item C)	Sigma	RAB0520C
Bovine IFNG Antibody-coated ELISA Plate (Item A)	Sigma	RAB0520A
HRP-Streptavidin (Item H)	Sigma	RABHRP5

Sigma - RAB0520

G)		
ELISA Stop Solution (Item I)	Sigma	RABSTOP3
ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)	Sigma	RABTMB3

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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US / EN

Kit Components:


20X Wash Buffer (Item B)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RABWASH4					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.


ELISA 5X Assay/Sample Diluent Buffer B (Item E1)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RABELADB					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Biotinylated Bovine IFNG Detection Antibody (Item F)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RAB0520F					Not a hazardous substance or mixture.

Bovine IFNG Protein Standard, Lyophilized (Item C)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RAB0520C					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.


Bovine IFNG Antibody-coated ELISA Plate (Item A)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RAB0520A					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

HRP-Streptavidin (Item G)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RABHRP5		Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Avoid breathing mist or vapours. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Dispose of contents/ container to an approved waste disposal plant. In case of inadequate ventilation wear respiratory protection. If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.	

ELISA Stop Solution (Item I)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RABSTOP3		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage. Store in a corrosion resistant	

				container with a resistant inner liner.	
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ELISA Colorimetric TMB Reagent (HRP Substrate, Item H)

Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - RABTMB3		Warning	Suspected of causing cancer.	Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection.	