MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

Kit Components: Wash Buffer

Dot Strips Diluent Buffer Conjugate Substrate

Incubation Trays

1.2 Intended Use

Immunodot kit (professional IVD use only) for the detection in human serum of IgG antibodies to the antigens deamidated Gliadin and tissue Transglutaminase (tTG).

1.3 Company

DIAsource ImmunoAssays S.A. Rue du Bosquet, 2 B-1348 Louvain-la-Neuve Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) N° 1272/2008 the preparation is not classified as dangerous.

2.2 Label elements

According to Regulation (EC) N° 1272/2008: none; according to concentration and/or conditioning: none.

2.3 Other hazards

The product contains preservatives which may possess in their given concentration, skin-sensitizing and slightly polluting properties. As any chemicals contain specific hazards, the products / product components should only be handled by appropriately trained personnel and with the necessary precautions for chemicals.

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N/A (see hereunder: mixture)

3.2 <u>Mixtures</u>

Abbreviation	Substance	Abbreviation	Substance
AP	Alkaline Phosphatase	NaCl	Sodium Chloride
BCIP	Bromo-Chloro-Indolyl-Phosphate	NaN_3	Sodium Azide
BSA	Bovine Serum Albumin	NBT	NitroBlue Tetrazolium
KCl	Potassium Chloride	TBS	Tris Buffer Saline
MgCl2	Magnesium Chloride		
MIT	MethylIsoThiazolone (preservative)		
	•		

Contents	Quantity	Ingredients
Sample	1 vial of 40 mL	H2O, TBS, NaCl, Tween, BSA, MIT, dye
Buffer		
DIL BUF		
Wash Buffer	1 vial of 40 mL	H2O, TBS, NaCl, Tween, MIT
WASH SOLN CONC		
Conjugate	1 vial of 40 mL	H2O, TBS, NaCl, KCl, MgCL2, AP-conjugated goat anti-
Ab AP		human IgG, MIT, dye
Substrate	1 vial of 40 mL	H2O, NaN3 (0.05 %), MgCL2, TBS, NBT, BCIP, NBT
SUB		Stabilizer
Membrane	24 units	Membrane (cellulose nitrate), coated with purified antigens:
Strips		Deamidated gliadin (purified from wheat gluten) and tissue
STRIP		Transglutaminase (recombinant, human).

Hazardous Substances and their concentrations

The Hazard Classification listed in this section refers to the chemical at a pure concentration. It has been determined that the remaining ingredient(s) of these components are not classified as hazardous chemicals due to their physical and/or chemical nature and/or concentration in solution (see concentration here in the table) and/or their conditioning.

Name	CAS	EINECS	Concentration in strip	Classification according to Regulation EC 1272/2008 Significance H Phrases
Cellulose Nitrate	9004-70-0	-	< 5 %	Flam. Sol. 1 H228

Annex VI to Regulation (EC) No 1272/2008: Index N° : 603-037-00-6; Commission Regulation (EU) 2015/830; 3.2.1

12/04/23

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

Name	CAS	EINECS	Concentration in mixture	Classification (in concentrated form) according to Regulation EC 1272/2008 Significance H Phrases
MIT:	55965-84-9	-	< 0,0015 %	Acute tox. 3 H331, H311, H301 Skin Corr. 1B. H314 Skin Sens. 1 (C ≥ 0,0015 %) H317 Aquatic acute 1 H400 Aquatic chronic 1 H410

Annex VI to Regulation (EC) No 1272/2008: Index N°: 613-167-00-5; Commission Regulation (EU) 2015/830; 3.2.1

Name	CAS	EINECS	Concentration in mixture	Classification (in concentrated form) according to Regulation EC 1272/2008 Significance H Phrases
NaN ₃	26628-22-8	247-852-1	< 0.1 %	Acute tox. 2 H300 Acute tox. 1 H310 STOT RE 2 H373 Aquatic acute 1 H400 Aquatic chronic, 1 H410

Annex VI to Regulation (EC) No 1272/2008: Index Number: 011-004-00-7; Commission Regulation (EU) 2015/830; 3.2.1

Name	CAS	EINECS	Concentration in mixture	Classification (in concentrated form) according to Regulation EC 1272/2008 Significance H Phrases
NBT	298-83-9	206-067-4	< 0,01%	Acute tox. 4 H302

1348 - Louvain-la-Neuve Belgium

CAS: Chemical Abstract Service (division of the American Chemical Society)
EINECS: European Inventory of Existing Commercial Chemical Substances

STOT RE: Specific target organ toxicity (repeated exposure)

Information on significance H Phrases: see Section16

Page 3/10

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

4 FIRST AID MEASURES

	SYMPTOMS	FIRST AID
Contact with eyes:	Irritation. Tears	Immediately flush eyes thoroughly with water.
Contact with skin:	Irritation	Immediately wash skin with soap and large
		volumes of water.
Ingestion:	It is recommended to avoid	If swallowed, wash out mouth with water
	ingestion and contact with	provided the person is conscious; seek medical
	food	advice (showing this document when possible).
		Never give anything by mouth to an
		unconscious person; never try to make an
		unconscious person vomit.

5 FIRE FIGHTING MEASURES

Flammability:	Liquid reagents contained in the kit are not flammable.					
	Cellulose Nitrate in pure form is highly flammable, but due to the small					
	quantity (< 5% of strip) and the conditioning of it not considered as a risk.					
	Combustion of cardboard inserts inside the kit and the outer cardboard box of					
	the kit may produce intense heat.					
Extinguishing	Water (for cellulose nitrate strips); water, carbon dioxide, dry chemical					
Media:	powder or polymer foam (for all other ingredients).					
	Use extinguishing media appropriate to surrounding fire conditions.					
Special Fire	For fires involving this material, do not enter any enclosed or confined fire					
Fighting	space without proper protective equipment. This may include self-contained					
Procedures:	breathing apparatus to protect against the hazardous effects of the normal					
	products of combustion or oxygen deficiency.					

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Always observe GLP (Good Laboratory Practice) safety lines. To avoid contact with skin and eyes wear appropriate protective clothing. Do not swallow, do not pipette by mouth.

6.2 Environmental Precautions

Avoid flushing away in drains; keep away from surface- and ground-water; keep away from soil.

6.3 Methods and material for containment and cleaning up

Sweep up and collect in appropriate containers for waste disposal; clean the floor and all other contaminated objects with water.

Reference to other sections

N/A

Printing date

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Always observe GLP (Good Laboratory Practice) safety lines. Wear appropriate protective clothing (refer to point 8.2). Wash hands and any other exposed zones with water and mild soap before eating, drinking, smoking and leaving workplace. Check the local and general ventilation of the workplace.

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

Take any measures to prevent aerosol and dust generation and fire. Dispose of the waste according to safety measures of GLP.

7.2 Conditions for safe storage, including any incompatibilities

Always store the product according to instructions given on the label.

Always observe given temperature and humidity limit/range.

7.3 Specific end use(s)

N/A

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 <u>Control parameters</u>

Name	Comment
Cellulose Nitrate	Contains no substances with occupational exposure limit values nor with short term exposure limit
MIT	Contains no substances with occupational exposure limit values nor with short term exposure limit
NaN3	TWA value 0,1 mg/m3 (in EU); STEL: 0,3 mg/m3 (in EU)
NBT	Contains no substances with occupational exposure limit values nor with short term exposure limit

Values according to Directive 98/24/EC + Article 2(3) of Commission Decision 2014/113/EU

TWA: Time Weighted Average, i.e. the average exposure to a contaminant to which workers may be exposed without adverse effect over a period such as in an 8-hour day or 40-hour week (an average work shift). They are usually expressed in units of ppm (volume/volume) or mg/m3.

STEL: Short Term Exposure Limit; i.e. the acceptable average exposure over a short period of time, usually 15 minutes as long as the time-weighted average is not exceeded.

8.2 Exposure controls

Respiratory protection:	None
Gloves:	Laboratory nitrile or latex gloves
Eye protection:	Goggles
Skin protection	Laboratory coat

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Kit Reagent	Kit Reagent				
	STRIP	DIL BUF	WASH SOLN CONC	Ab AP	SUB	
Appearance:	Solid (fibrous sheet); colour: white to yellow	Liquid reagent Colour: yellow	Liquid reagent Colour: colourless	Liquid reagent Colour: red	Liquid reagent Colour: pale yellow	
Odour:	None	Negligible	Negligible	Negligible	Negligible	
Odour threshold:	N/A	Not given	Not given	Not given	Not given	
pH value:	Not given	Not given	Not given	Not given	Not given	
Melting point/freezing point:	Decomposes	Not given	Not given	Not given	Not given	
Initial boiling point and boiling range:	Not given	Not given	Not given	Not given	Not given	
Flash point:	N/A	N/A	N/A	N/A	N/A	
Evaporation rate:	N/A	N/A	N/A	N/A	N/A	

1348 - Louvain-la-Neuve Belgium

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MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

	Kit Reagent	Kit Reagent					
	STRIP	DIL BUF	WASH SOLN CONC	Ab AP	SUB		
Flammability:	Yes, if exposed to: flames, sparks, shocks, static discharge, acids	N/A	N/A	N/A	N/A		
Upper/lower flammability or explosive limits:	Not explosive	Not explosive	Not explosive	Not explosive	Not explosive		
Vapour pressure:	Not given	Not given	Not given	Not given	Not given		
Vapour density:	Not given	Not given	Not given	Not given	Not given		
Relative density:	Not given	Not given	Not given	Not given	Not given		
Solubility:	Insoluble in water	Completely soluble	Completely soluble	Completely soluble	Completely soluble		
Partition coefficient n-octanol/water:	Not given	Not given	Not given	Not given	Not given		
Auto-ignition temperature:	185°C	Not given	Not given	Not given	Not given		
Decomposition temperature:	Not given	Not given	Not given	Not given	Not given		
Viscosity:	Not given	Not given	Not given	Not given	Not given		
Explosive properties:	Not explosive	Not explosive	Not explosive	Not explosive	Not explosive		
Oxidizing properties:	Not given	Not given	Not given	Not given	Not given		

9.2 Other information

N/A

10 STABILITY AND REACTIVITY

10.1 Reactivity

Particular dangerous reactions not known

10.2 Chemical stability

Materials to avoid: None.

Chemical stability: If storage conditions and expiry date are correctly observed, the mixture / product components are chemically stable.

10.3 Possibility of hazardous reactions

NaN3 (in high concentrations) reacts with heavy metals such as copper or lead and forms explosive compounds.

10.4 Conditions to avoid

Avoid inappropriate storage (temperature, humidity, light, etc). Avoid inappropriate use.

10.5 <u>Incompatible materials</u>

Acids, alkalis and solvents may adversely affect the functionality of the liquid reagents. Oxidizing materials may adversely affect the functionality of cellulose nitrate.

10.6 Hazardous decomposition products

12/04/23

Under appropriate storage conditions and correct handling of the mixtures / product components, hazardous decomposition products are not known.

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MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

Combustion of cardboard inserts inside the kit and of the outer cardboard box of the kit does \underline{not} liberate toxic gas (only carbon dioxide and water vapour).

11 TOXICOLOGICAL INFORMATION

11.1 <u>Information on toxicological effects</u>

a. Acute toxicity

Ingredient	Measured quantity	Value	Species	
Cellulose Nitrate	LD ₅₀ (oral)	3200 mg/kg	Rat	
MIT	LD ₅₀ (oral)	=	-	
NaN ₃	LD ₅₀ (oral)	27 mg/kg	Rat	
NBT	LD ₅₀ (oral)	2000 mg/kg	Mouse	

LD₅₀ test: Lethal dose for 50% of the population of test animals

b. Skin corrosion/irritation

No skin corrosion or irritation known

c. Serious eye damage/irritation

No eye damage or irritation known

d. Respiratory or skin sensitisation

No respiratory or skin sensitisation known

e. Germ cell mutagenicity

No data available

f. Carcinogenicity

No data available

g. Reproductive toxicity

No data available

h. STOT-single exposure

No data available

i. STOT-repeated exposure

Ingredient	STOT-repeated exposure	Comment
Cellulose	N/A	-
Nitrate		
MIT	N/A	-
NaN ₃	May cause damage to brain	N/A, low concentration in mixture (0.1 %)
NBT	N/A	-

j. Aspiration hazard

No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Ingredient	Toxicity for algae	Toxicity daphnia	for	Toxicity for fish	Toxicity for microorganisms
Cellulose	Acute EC ₅₀ : 579000	-		-	-
Nitrate	μg/l Fresh water				
	96 h				
MIT	-	-		-	-
NaN ₃	EC50=0.35 mg/L	-		LC50=5.46 mg/L 96	-
	96 h			h Pimephalespromelas	
	Pseudokirchneriella				
	subcapitata				

Printing date 12/04/23

Compiled by:

Page 7/10



MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

NBT - - - -

 LC_{50} test: (Lethal Concentration 50) Standard measure of the toxicity of the surrounding medium that will kill 50 % of the sample population in a specified period through exposure via inhalation (respiration). LC50 is measured in micrograms (or milligrams) of the material per litre, or parts per million (ppm), of air or water.

 EC_{50} static test: (Effective Concentration 50) Concentration of test substance in dilution water that is calculated to effect 50 percent of a test population during continuous exposure over a specified period of time.

12.2 Persistence and degradability

Ingredient	Measured quantity	Value	Comment
Cellulose Nitrate	No data available	-	-
MIT	No data available	-	-
NaN3	No data available	-	-
NBT	No data available	-	-

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPVB assessment

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Ingredient	Effect
Cellulose Nitrate	None
MIT	Toxic to aquatic life
NaN3	Very toxic to aquatic life with long lasting effects
NBT	No data available

^{*)} The reagents in the kits are mixtures. Due to the very low concentration of toxic substances in the mixture, the handling and use of them do not lead to ecological problems.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Emptied bottles and vials and used strips may retain product residues: always handle as if they were

Humidify cellulose nitrate strips before disposal.

Chemical waste cannot be disposed of with household garbage: please contact a licensed professional waste disposal service to dispose of this material.

The waste generated by chemical preparations has generally to be regarded as special waste material, and is in most countries regulated by federal or state government laws and ordinances. Please contact the authority in the matter.

Disposal of the packaging

Printing date

Disposal always according to official regulations: please contact the authority in the matter.

14 TRANSPORT INFORMATION

12/04/23

Compiled by: Page 8/10
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MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

N/A: The products are not subject to transport regulations.

15 REGULATORY INFORMATION

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

The user has to observe the applicable regulations.

- Commission Regulation (EU) N° 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Regulation (EC) N° 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC (classification, packaging and labelling of dangerous preparations) and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- Regulation (EC) N° 1272/2008 of the European Parliament and of the Council 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
- Commission Regulation (EU) N° 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

15.2 <u>Chemical safety assessment</u>

No chemical safety assessment has been carried out.

16 OTHER INFORMATION

The present MSDS has been compiled according to the ANNEX II of the Commission Regulation (EU) 2015/830 of 28 May 2015.

ANNEX II of Commission Regulation (EU) 2015/830 replaces

- Annex II ⁽¹⁾ of Regulation (EC) No 1907/2006
- Article 59(5) of Regulation (EC) No 1272/2008 of the European Parliament and of the Council (which amends ⁽¹⁾)
- Commission Regulation (EU) No 453/2010 (which amends (1))

Full text of hazard phrases mentioned in this document:

Hazard phrases

Code	Phrase
H228	Flammable solid
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage

Printing date 12/04/23

Compiled by:

Page 9/10



MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: DIAspot Celiac IgG

Catalog #: KAPDTENDG

Hazard phrases

Code	Phrase
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
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

MSDS established : 2023-04-12

Revision number : 1

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