







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

1.1. Product Identifier

Product Name: BlueDot Celiac IgA

Product Code: ENDA-24

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

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

1.3. Details of the supplier of the safety data sheet

D-TEK s.a

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BE-7000 Mons Belgium
Tel.: +32 65 841 888
Fax: +32 65 842 663
Internet: www.d-tek.be
email: info@d-tek.be

1.4. Emergency telephone number

D-tek s.a. (only office hours): +32 65 841 888 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Centre!

SECTION 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) No 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N/A (see hereunder: mixture)

3.2 Mixtures

Abbreviations in alphabetic order:

AP = Alkaline Phosphatase; BCIP = Bromo-Chloro-Indolyl-Phosphate; BSA = Bovine Serum Albumin; KCl = Potassium Chloride; $MgCl_2$ = Magnesium Chloride; MIT = MethylIsoThiazolone (preservative); NaCl = Sodium Chloride; NaN_3 = Sodium Azide; NBT = NitroBlue Tetrazolium; TBS = Tris Buffer Saline

Contents	Quantity	Ingredients
Sample Buffer DIL	1 vial of 40 mL	H ₂ O, TBS, NaCl, Tween, BSA, MIT, dye
Wash Buffer WASH 10x	1 vial of 40 mL	H ₂ O, TBS, NaCl, Tween, MIT
Conjugate CONJ IgA	1 vial of 40 mL	H ₂ O, TBS, NaCl, KCl, MgCL ₂ , AP-conjugated goat anti-human IgA, MIT, dye
Substrate SUB	1 vial of 40 mL	H ₂ O, NaN ₃ (0.05 %), MgCL ₂ , TBS, NBT, BCIP, NBT Stabilizer
Membrane Strips STRIP	24 units	Membrane (cellulose nitrate), coated with purified antigens: Deamidated gliadin (purified from wheat gluten) and tissue 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 <u>not</u> 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.





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Abbreviations and significances:

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

Name	CAS	EINECS	Concentration strip	in	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 No: 603-037-00-6; Commission Regulation (EU) 2015/830; 3.2.1

Name	CAS	EINECS	Concentration mixture	in 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 No. 613-167-00-5; Commission Regulation (EU) 2015/830; 3.2.1

Name	CAS	EINECS	Concentration mixture	in	Classification (in concentrated form) according to Regulation EC 1272/2008 Significance H Phrases
NaN₃	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 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

SECTION 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 ingestion and contact with food	If swallowed, wash out mouth with water provided the person is conscious; seek medical advice (showing this document when possible). Never give anything by mouth to an unconscious person; never try to make an unconscious person vomit.





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SECTION 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 Media:	Water (for cellulose nitrate strips); water, carbon dioxide, dry chemical powder or polymer
	foam (for all other ingredients).
	Use extinguishing media appropriate to surrounding fire conditions.
Special Fire Fighting	For fires involving this material, do not enter any enclosed or confined fire space without
Procedures:	proper protective equipment. This may include self-contained breathing apparatus to
	protect against the hazardous effects of the normal products of combustion or oxygen
	deficiency.

SECTION 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.

6.4 Reference to other sections

N/A

SECTION 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. 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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

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
NaN ₃	TWA value 0,1 mg/m³ (in EU); STEL value: 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 ma/m^3 .

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





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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	Kit Reagent				
	STRIP	DIL	WASH 10x	CONJIgA	SUB
Appearance:	Solid (fibrous sheet); colour: white to yellow	Liquid reagent Colour: yellow	Liquid reagent Colour: colourless	Liquid reagent Colour: green	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
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

SECTION 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 Incompatible materials

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





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10.6 Hazardous decomposition products

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

Combustion of cardboard inserts inside the kit and of the outer cardboard box of the kit does <u>not</u> liberate toxic gas (only carbon dioxide and water vapour).

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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 Nitrate	N/A	-
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

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

LC₅₀ 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.





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12.2 Persistence and degradability

Ingredient	Measured quantity	Value	Comment
Cellulose Nitrate	No data available	-	-
MIT	No data available	-	-
NaN ₃	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 in pure form*	
Cellulose Nitrate	none	
MIT	Toxic to aquatic life	
NaN ₃	Very toxic to aquatic life with long lasting effects	
NBT	No data available	

^{*)} The reagents in D-tek's 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.

SECTION 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 full. 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

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

SECTION 14. TRANSPORT INFORMATION

14.1 to 14.7: N/A: The products are not subject to transport regulations.

SECTION 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 (EC) 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 Chemical safety assessment

No chemical safety assessment has been carried out.





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SECTION 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			
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			