

## DIASpot Liver<sup>7</sup> IgG

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

Product Name: DIASpot Liver<sup>7</sup> IgG  
Product Code: KAPDTLI7  
UFI: N/A

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

Immunodot kit (professional IVD use only) for the detection of IgG antibodies to the antigens M2/nPDC, gp210, sp100, LKM1, LC1, SLA and F-actin in human serum.

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

DIASource ImmunoAssays S.A.  
Rue du Bosquet, 2  
BE-1348 Louvain-la-Neuve - BELGIUM  
Website: [www.diasource.be](http://www.diasource.be)  
email: [products.support@diasource.be](mailto:products.support@diasource.be)

#### 1.4. Emergency telephone number

Please refer to your local Anti-Poison Centre or contact the European Chemicals Agency (ECHA): website <https://poisoncentres.echa.europa.eu/appointed-bodies>; tel: +358-9-686180.

### 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) N° 1272/2008: none; according to concentration and/or conditioning: none.

#### 2.3 Other hazards

The mixture is for professional use only and does not come into contact with the patient. The professional user has to observe the precautions for safe handling given in 7.1. The criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative effects do not apply. Neither does the mixture have endocrine disrupting properties.

The product components contain 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<sub>2</sub> = Magnesium Chloride; MIT = MethylIsoThiazolone (preservative); NaCl = Sodium Chloride; NaN<sub>3</sub> = Sodium Azide; NBT = NitroBlue Tetrazolium; TBS = Tris Buffer Saline

| Contents                    | Quantity                                                                                        | Ingredients                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample Buffer<br>DIL        | 1 vial of 40 mL                                                                                 | H <sub>2</sub> O, TBS, NaCl, Tween, BSA, MIT, dye                                                                                                                                                                                                                                                                                                              |
| Wash Buffer<br>WASH 10x     | 1 vial of 40 mL                                                                                 | H <sub>2</sub> O, TBS, NaCl, Tween, MIT                                                                                                                                                                                                                                                                                                                        |
| Conjugate<br>CONJ IgG       | 1 vial of 40 mL                                                                                 | H <sub>2</sub> O, TBS, NaCl, KCl, MgCl <sub>2</sub> , AP-conjugated goat anti-human IgG, MIT, dye                                                                                                                                                                                                                                                              |
| Substrate<br>SUB            | 1 vial of 40 mL                                                                                 | H <sub>2</sub> O, NaN <sub>3</sub> (0.05 %), MgCl <sub>2</sub> , TBS, NBT, BCIP, NBT Stabilizer                                                                                                                                                                                                                                                                |
| Membrane<br>Strips<br>STRIP | 24 units<br>9 dots on each:<br>1 positive control (C+)<br>7 antigens<br>1 negative control (C-) | Membrane (cellulose nitrate), coated with the antigens:<br><b>M2/nPDC</b> (purified from bovine heart), <b>gp210</b> (recombinant, human), <b>sp100</b> (recombinant, human), <b>LKM1</b> (recombinant, human), <b>LC1</b> (recombinant, human), <b>SLA</b> (recombinant, human) and <b>F-actin</b> (prepared from purified G-actin (rabbit skeletal muscle)). |

#### 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.

**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 in strip | Classification according to Regulation EC 1272/2008<br>Significance<br>H Phrases |
|-------------------|-----------|--------|------------------------|----------------------------------------------------------------------------------|
| Cellulose Nitrate | 9004-70-0 | -      | < 5 %                  | Flam. Sol. 1<br>H228                                                             |

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

| Name | CAS        | EINECS | Concentration in mixture | Classification (in concentrated form) according to Regulation EC 1272/2008<br>Significance<br>H Phrases                                                                                                           |
|------|------------|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIT: | 55965-84-9 | -      | < 0,0015 %               | Acute Tox. 2 H330<br>Acute Tox. 2 H310<br>Acute Tox. 3 H301<br>Skin Corr. 1 C H314; C ≥ 0,6%<br>Eye Dam. 1 H318; C ≥ 0,6%<br>Skin Sens. 1 A H317; C ≥ 0,0015%<br>A Aquatic Acute 1 H400<br>Aquatic Chronic 1 H410 |

Annex to Commission Regulation (EU) 2018/1480; Index Number: 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<br>Significance<br>H Phrases                    |
|------------------|------------|-----------|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NaN <sub>3</sub> | 26628-22-8 | 247-852-1 | < 0.1 %                  | Acute tox. 2<br>H300<br>Acute tox. 1<br>H310<br>STOT RE 2<br>H373<br>Aquatic acute 1<br>H400<br>Aquatic chronic, 1<br>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<br>Significance<br>H Phrases |
|------|----------|-----------|--------------------------|---------------------------------------------------------------------------------------------------------|
| NBT  | 298-83-9 | 206-067-4 | < 0,01%                  | Acute tox. 4<br>H302                                                                                    |

**SECTION 4. First aid measures**
**4.1 Description of first aid measures**

Contact with eyes: Immediately flush eyes thoroughly with water  
Contact with skin: Immediately wash skin with soap and large volumes of water  
Ingestion: If swallowed, wash out mouth with water (provided the person is conscious)

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

Contact with eyes: Irritation, tears  
Contact with skin: Irritation  
Ingestion: Nausea

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

If person unconscious or symptoms do not fade, seek medical advice by showing this document.  
In any case, never give anything by mouth to an unconscious person and never try to make an unconscious person vomit.

**SECTION 5. Firefighting measures**
**5.1 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.

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

None

**5.3 Advice for firefighters**

Do not enter any enclosed or confined fire space without 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, protective equipment and emergency procedures**

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 <sub>3</sub>  | TWA value 0,1 mg/m <sup>3</sup> (in EU); STEL: 0,3 mg/m <sup>3</sup> (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/m<sup>3</sup>.

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**

|                                |                                    |
|--------------------------------|------------------------------------|
| <b>Respiratory protection:</b> | None                               |
| <b>Gloves:</b>                 | Laboratory nitrile or latex gloves |
| <b>Eye protection:</b>         | Goggles                            |
| <b>Skin protection</b>         | Laboratory coat                    |

**SECTION 9. Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

|                                                  | Kit Reagent           |                |                |                |                |
|--------------------------------------------------|-----------------------|----------------|----------------|----------------|----------------|
|                                                  | STRIP                 | DIL            | WASH           | CONJ/IgG       | SUB            |
| <b>a) Physical state</b>                         | Solid (fibrous sheet) | Liquid reagent | Liquid reagent | Liquid reagent | Liquid reagent |
| <b>b) Colour</b>                                 | white to yellow       | yellow         | colourless     | red            | pale yellow    |
| <b>c) Odour:</b>                                 | None                  | Negligible     | Negligible     | Negligible     | Negligible     |
| <b>d) Melting point/freezing point:</b>          | Decomposes            | Not given      | Not given      | Not given      | Not given      |
| <b>e) Boiling point or initial boiling point</b> | Not given             | Not given      | Not given      | Not given      | Not given      |

|                                                              | Kit Reagent                                                         |                    |                    |                    |                    |
|--------------------------------------------------------------|---------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                                              | STRIP                                                               | DIL                | WASH               | CONJ IgG           | SUB                |
| <b>and boiling range</b>                                     |                                                                     |                    |                    |                    |                    |
| <b>f) Flammability:</b>                                      | Yes, if exposed to: flames, sparks, shocks, static discharge, acids | N/A                | N/A                | N/A                | N/A                |
| <b>g) Lower and upper explosion limit</b>                    | N/A                                                                 | Not explosive      | Not explosive      | Not explosive      | Not explosive      |
| <b>h) Flash point:</b>                                       | N/A                                                                 | N/A                | N/A                | N/A                | N/A                |
| <b>i) Auto-ignition temperature:</b>                         | 185°C                                                               | Not given          | Not given          | Not given          | Not given          |
| <b>j) Decomposition temperature:</b>                         | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>k) pH value:</b>                                          | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>l) Kinematic viscosity:</b>                               | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>m) Solubility:</b>                                        | Insoluble in water                                                  | Completely soluble | Completely soluble | Completely soluble | Completely soluble |
| <b>n) Partition coefficient n-octanol/water (log value):</b> | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>o) Vapour pressure:</b>                                   | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>p) Density and/or relative density</b>                    | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>q) Relative vapour density:</b>                           | Not given                                                           | Not given          | Not given          | Not given          | Not given          |
| <b>r) Particle characteristics</b>                           | N/A                                                                 | N/A                | N/A                | N/A                | N/A                |

## 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

$\text{NaN}_3$  (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.

### 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 not liberate toxic gas (only carbon dioxide and water vapour).

**SECTION 11. Toxicological information**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**a. Acute toxicity**

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

*LD<sub>50</sub> 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 <sub>3</sub>  | May cause damage to brain | N/A, low concentration in mixture (0.1 %) |
| NBT               | N/A                       | -                                         |

**j. Aspiration hazard**

No data available

**11.2 Information on other hazards**

N/A (no endocrine disrupting properties)

**SECTION 12. Ecological information**
**12.1 Toxicity**

| Ingredient        | Toxicity for algae                                                           | Toxicity for daphnia | for | Toxicity for fish                                               | Toxicity for microorganisms |
|-------------------|------------------------------------------------------------------------------|----------------------|-----|-----------------------------------------------------------------|-----------------------------|
| Cellulose Nitrate | Acute EC <sub>50</sub> : 579000 µg/l – 96 h<br>Fresh water                   | -                    | -   | -                                                               | -                           |
| MIT               | -                                                                            | -                    | -   | -                                                               | -                           |
| NaN <sub>3</sub>  | EC <sub>50</sub> =0.35 mg/L - 96 h<br><i>Pseudokirchneriella subcapitata</i> | -                    | -   | LC <sub>50</sub> =5.46 mg/L - 96 h<br><i>Pimephalespromelas</i> | -                           |
| NBT               | -                                                                            | -                    | -   | -                                                               | -                           |

*LC<sub>50</sub> 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). LC<sub>50</sub> is measured in micrograms (or milligrams) of the material per liter, or parts per million (ppm), of air or water.*

*EC<sub>50</sub> 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 | -     | -       |
| NaN <sub>3</sub>  | 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 Endocrine disrupting properties

This mixture contains no components considered to have endocrine disrupting properties.

### 12.7 Other adverse effects

| Ingredient        | Effect in pure form*                                 |
|-------------------|------------------------------------------------------|
| Cellulose Nitrate | none                                                 |
| MIT               | Toxic to aquatic life                                |
| NaN <sub>3</sub>  | Very toxic to aquatic life with long lasting effects |
| NBT               | No data available                                    |

\*) The reagents the kit 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 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 UN Number or ID number

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

### 14.2 UN proper shipping name

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

### 14.3 Transport hazard class(es)

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

### 14.4 Packing group

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

### 14.5 Environmental hazards

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

### 14.6 Special precautions for user

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

### 14.7 Maritime transport in bulk according to IMO instruments

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) 2020/878** amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- **Commission Regulation (EU) 2018/1881(2)** amending Annexes I, III and VI to Regulation (EC) No 1907/2006
- **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.

- **The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)** developed in the framework of the United Nations, setting out internationally harmonised criteria for the classification and labelling of chemicals and rules on safety data sheets
- **COM(2018) 734 - COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS** towards a comprehensive European Union framework on endocrine disruptors
- **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.

## SECTION 16. Other information

The present MSDS has been compiled according to **Commission Regulation (EU) 2020/878 of 18 June 2020**. REGULATION (EU) 2020/878 replaces

- Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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                               |
| H318 | Causes serious eye damage                                         |
| H330 | Fatal if inhaled                                                  |
| 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              |



**DiaSource®**

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