DG Gel DC Scan Plus
The direct antiglobulin testing that gives you more
Simplify operations
Unify all testing protocols with a simple method to make the right decision based on diagnostic evidence.

Enhance efficiency
In a case of hemolytic anemia, there is no time to waste. Have your results on time to start treatment and avoid clinical complications.

Improve patient care
Extending the specificity of the DAT reagents beyond the routine anti-IgG and anti-C3d reduces false-negative results, increases sensitivity and specificity of the DAT test, and improves patient management in AIHA²,³,⁴.

The direct antiglobulin testing that gives you more

Clinical situations are complex. When your patient is hemolyzing, you need a simple, rapid, and comprehensive test on hand to distinguish immune from nonimmune hemolytic anemia¹.

DG Gel DC Scan Plus is a new DAT testing option from Grifols that gives you more. Extend your DAT testing beyond the routine by detecting IgG, IgA, IgM, C3b, C3d, and C4b with DG Gel DC Scan Plus without additional time or reagents¹,².

When there is no time to waste, the Grifols DG Gel portfolio of products is available as your complete solution to address all the challenges your lab faces. With DG Gel DC San Plus, you can improve patient management while consolidating several procedures on a single DG Gel card¹,²,³.
Extending the specificity of the DAT reagents in specific clinical situations

- For the investigation of those clinical situations where the presence of hemolysis has been established or is suspected, to distinguish immune from nonimmune hemolytic anemia1
- For the investigation of 3,5:
  - Autoimmune hemolytic anemia (AIHA)
  - Hemolytic disease of the fetus and neonate (HDFN)
  - Hemolytic transfusion reactions (HTR)
  - Hemolytic reactions related to allogeneic stem cell transplant or solid organ transplant
  - Drug-induced immune hemolytic anemia (DIHA)

The four types of AIHA have different immune effects, symptoms, and treatments. For this reason, detecting different isotypes of immunoglobulins or different fractions of the complement system can be helpful in the diagnosis of the type of AIHA3,5.

<table>
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<tr>
<th>AIHA</th>
<th>Description</th>
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<tr>
<td>Warm AIHA (WAIHA)1</td>
<td>It is the most prevalent type, and it is usually mediated by IgG antibodies that react at warm temperatures; nevertheless, some cases have been reported to be mediated by IgA antibodies.</td>
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<tr>
<td>Cold agglutinin disease (CAD)6</td>
<td>It is the second most common type, mostly mediated by cold IgM antibodies with the ability to activate complement system. In this type of AIHA, complement fractions like C3b and C3d can be detected in the RBC’s surface, and some of them can be indicative of acute stages of the disease as C3b and C4b.</td>
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<tr>
<td>Paroxysmal cold hemoglobinuria (PCH)7</td>
<td>It is also a cold type of AIHA caused by biphasic IgG autoantibodies that in a first phase, at low temperature, promote the partial activation of the complement system (until C4 fixation), but in a second phase, at higher temperature, usually detach from RBCs and the complement system finishes its activation. This is the less usual type of AIHA and different fractions of complement system, such as C3 and C4, could be detected on the RBC’s surface.</td>
</tr>
<tr>
<td>Mixed type AIHA7</td>
<td>It is one of the most severe forms of the disease and is mediated by warm IgG and cold IgM antibodies with activation of complement system.</td>
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| Hemolytic disease of the fetus and neonate (HDFN) | Fetal or neonate RBCs are coated by maternal IgG antibodies against red cell antigens that are paternally inherited by the fetus, causing RBC destruction. |
| Hemolytic transfusion reactions (HTR)             | IgG and IgM antibodies against the transfused RBCs and complement factors induce the immune response, causing the destruction of RBCs. |

BIBLIOGRAPHY
1. DC Scan Plus Instructions For Use 1.0
Technical characteristics

DG Gel DC Scan Plus permits the differentiation of red blood cells sensitized in vivo by IgG, IgA, and IgM type immunoglobulins and/or with the complement C3b, C3d, and C4b fractions.

Profile

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<tr>
<th>REFERENCE</th>
<th>PACKAGING</th>
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<tr>
<td>210127</td>
<td>25 cards/box</td>
<td>2-8 ºC</td>
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Additional reagents required: DG Gel Sol (ref. 210354), universal solution for preparing red blood cell suspensions used in DG Gel techniques.

IVD product bearing CE mark certification under the IVDR.