Hematology Reagents and Controls

Our products for your critical process
Reagents you can count on
Mallinckrodt Baker’s chemical expertise and 30 years of experience are the foundation of our J.T.Baker products for Hematology. We understand not only cell lysing and chemical interference of compounds on cell membranes, but also the characteristics of these compounds in aqueous solutions and their long-term behavior in the presence of other chemicals.

Within our Hematology product line we offer a broad range of reagents for Hematology cell counters together with a variety of hematology controls to monitor daily accuracy and precision. In Hematology we offer:

- Reagents for cell analysers
- Hematology Controls
- Rapid Stat
- Manual Hemoglobinometry
- Staining in Hematology

Our Hematology products are produced using state-of-the-art production and packaging techniques in modern certified manufacturing facilities.

Quality

Our products are designed and manufactured according to the following Quality systems:

- NEN-EN-ISO 9001
- NEN-EN-ISO 14001
- IVD Directive 98/79/EC; all our products that are subject to the Directive are registered and CE marked
- International Responsible Care; our contribution to environmental friendly and efficient manufacturing
We offer a complete range of reagents for the majority of cell-counters on the market including 5 part differential models and automated reticulocyte counting instruments. The product range consists of:
- diluting fluids (Diluids)
- lysing reagents (CyMets)
- several types of rinsing and cleaning solutions

Diluid
Diluid is a specially filtered non-sterile blood diluting fluid for use in cell counting and sizing. The composition of the reagent maintains the stability of RBC’s, PLTs and WBC’s during counting. J.T. Baker Diluid is available to monitor five-part WBC differential analysis based on the laser light scattering principle. It can also be used for three-part differential analysis or non-diff applications. Diluid is stable for 3 years.

Cymet
J.T.Baker lysing reagents are available both as Cyanide (CN) free / SDS free solutions and as traditional cyanide containing reagents. The CN/SDS free reagents are non-poisonous and have shown to be more stable than the traditional reagents. This results in a longer shelf-life and a better stability after opening.

Cleaners
Mallinckrodt Baker supplies several cleaning and rinsing solutions, such as isotonic chemical cleaners, named DetectoTerge with surface active ingredients. The enzymatic cleaners ProClean and ProClean Plus contain proteolytic enzymes and are designed to be used for daily routine cleaning or for emergency cleaning. Hypochlorite solutions for effective clog removing are offered in several concentrations.

Quality Control
Together with testing for specifications such as pH, osmolality and conductivity, all reagent batches are performance tested to guarantee excellent suitability for the hematology analyzer.

Packaging
- Diluids are packed in 5, 10 or 20 L polycubes
- CyMets are provided in 0.5 or 1 L HDPE bottles or 5 L polycubes
- Cleaners are offered in several packsizes
Equipment dedicated bottles are also available.

Suitable
- A dedicated reagent set for each Hematology cell counter

Convenient
- All diluting fluids are packed in easy to carry boxes
- Long shelf life and stability after opening

Consistent
- Raw materials all from an internal source
- Most lytic reagents are Cyanide and SDS free

Complete
- The current range covers over 50 different diluting, lysing and cleaning solutions for a wide range of cell analysers.
Our range of Controls comprises 8-Parameter Controls for most instruments and differential Controls for various 3-part and 5-part differential analysis including reticulocyte counting. Daily use of the Controls provides quality control data to confirm the precision and accuracy of instrument operation. The Controls simulate whole blood and are available in abnormal Low, Normal and abnormal High levels. The products contain human red blood cells, simulated white blood cells and mammalian platelets, suspended in a plasma like fluid. All Controls are manufactured and delivered on a four or six times per year schedule, depending on their stability.

### Hematology Controls for precision and accuracy

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### Suitable

**Suitable:**
- Assay values for the applicable instruments are provided with each lot and at www.mallbaker.com
- Vial volumes varying from 2.5 – 8 ml

### Convenient

**Convenient:**
- Several packaging options with screw cap vials or pierceable vials
- Lot numbers have one month overlap of shelf life

### Consistent

**Consistent:**
- Closed vials are stable for 3 or 4 months
- Open vial stability of 2 – 4 weeks

### Complete

**Complete:**
- The range covers non diff and differential controls for a wide range of cell-counters
- Specific Controls for blood bank applications
- Reticulocyte controls available

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**Ordering information Controls**

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls for all instruments (non diff)</td>
<td>3724/3725/3726</td>
<td>2.5 ml</td>
</tr>
<tr>
<td>8-Parameter Control L / N / H</td>
<td>3701/3702/3703</td>
<td>4.5 ml</td>
</tr>
<tr>
<td>8-Parameter Control L / N / H</td>
<td>3721/3722/3723</td>
<td>8 ml</td>
</tr>
<tr>
<td>Controls for Bayer Advia</td>
<td>3690/3691/3692</td>
<td>4.0 ml</td>
</tr>
<tr>
<td>ADV-Diff Control L / N / H</td>
<td>3684/3685/3686</td>
<td>3.5 ml</td>
</tr>
<tr>
<td>ADV Retic 1 / 2 / 3</td>
<td>3690/3691/3692</td>
<td>4.0 ml</td>
</tr>
<tr>
<td>Controls for Coulter 5 diff</td>
<td>3681/3682/3683</td>
<td>5.0 ml</td>
</tr>
<tr>
<td>Controls for Sysmex or Biochem</td>
<td>3896/3897/3898</td>
<td>2.5 ml</td>
</tr>
<tr>
<td>K-Diff Control L / N / H</td>
<td>3731/3732/3733</td>
<td>4.5 ml</td>
</tr>
<tr>
<td>XE-Diff Control Low</td>
<td>3693/3694/3695</td>
<td>4.5 ml</td>
</tr>
<tr>
<td>SE Retic 1 / 2 / 3</td>
<td>3666/3667/3668</td>
<td>3.0 ml</td>
</tr>
<tr>
<td>Controls for Swelab</td>
<td>3892/3893/3894</td>
<td>2.5 ml</td>
</tr>
<tr>
<td>AC-Diff Control L / N / H</td>
<td>3820/3821/3822</td>
<td>4.5 ml</td>
</tr>
<tr>
<td>Controls for 3 part diff analysis</td>
<td>3734/3735/3736</td>
<td>2.5 ml</td>
</tr>
<tr>
<td>3-Diff Control L / N / H</td>
<td>3710/3711/3712</td>
<td>24 x 1 ml</td>
</tr>
<tr>
<td>WBC Reduced Pt Control L / H</td>
<td>3698/3699</td>
<td>3.0 ml</td>
</tr>
<tr>
<td>WBC Reduced RBC Control L / H</td>
<td>3701/3702/3703</td>
<td>4.5 ml</td>
</tr>
<tr>
<td>Coagulation Control Level I / II / III</td>
<td>3690/3691/3692</td>
<td>4.0 ml</td>
</tr>
</tbody>
</table>

Orders are guaranteed when received 9 weeks in advance.
Rapid Stat, quality control and assessment program

Rapid Stat is a fast and convenient Quality Assessment program for hemocytometry. Users of all J.T.Baker Hematology Controls are allowed to participate in this external, between-lab and between-instrument statistical program. This free service is provided to inform users of our Controls about their individual performance compared to other users. Participation is easy. A new lot of Controls must be analyzed during 5 days. The results are sent by e-mail and within a few days a complete statistical report is received. The Rapid Stat report contains results per parameter for the current lot number and a cumulative review of the last 4 lot numbers.

A comparison is made with your instrument group and with the total group of users of the same Control.

Suitable

Suitable:
- All users of J.T.Baker Hematology Controls can use Rapid Stat
- Rapid Stat is instrument / manufacturer independent
- Multi instrument applicable

Convenient

Convenient:
- Fast: Send results and receive report by e-mail
- The Clinical part of our website www.mallbaker.com shows the Rapid Stat Reply Sheets
- Trends are visualized and easy to recognize

Consistent

Consistent:
- Participation in Rapid Stat is possible for each lot number
- 4 lotnumber history in each report

Complete

Complete:
- Distribution histograms showing statistical distribution of the results of all users, your instrument group and your results
- The eccentricity graphs present the confidence intervals per parameter

Manual Hemoglobinometry

For the manual analysis of Hemoglobin J.T.Baker offers a Concentrated Reagent and several Hemoglobin standards. The reagents are developed according to Van Kampen and Zijlstra.

Ordering information

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hb Reagent 20 ml for 1L</td>
<td>3060.0020</td>
<td>20 ml</td>
</tr>
<tr>
<td>Hb Reagent 100 ml for 5L</td>
<td>3060.0100</td>
<td>100 ml</td>
</tr>
<tr>
<td>HemiGlobin-Cyanide Standard</td>
<td>3061</td>
<td>10 x 10 ml</td>
</tr>
<tr>
<td>HemoGlobin standard L / N / H</td>
<td>3074</td>
<td>4 x 3 x 0.5 ml</td>
</tr>
<tr>
<td>HemoGlobin standard Normal</td>
<td>3075</td>
<td>12 x 0.5 ml</td>
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</tbody>
</table>
Staining in Hematology, bright and reliable

**May-Grünwald, Giemsa, Wright and Leishman**
These stains are used for tissue sections, cytology smears, blood smears and bone marrow. Our production methods and formulations are modified to the highest standards resulting in optimized color intensity.

**Hemacolour and Sørensen buffer**
Hemacolour is a fast, efficient and convenient staining method for blood smears replacing the traditional MayGrünwald and Giemsa method. The procedure takes less than 1 minute and requires only 1 solution. To ensure the consistency it is advised to use Sørensen buffer instead of water.

**RetiCount**
For the identification of reticulocytes in blood smears and for counting the number of reti’s per 1000 erythrocytes by microscopic analysis we offer RetiCount.

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**Ordering information Stains**

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Number</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giemsa</td>
<td>3856</td>
<td>500 ml, 1L, 2.5L</td>
</tr>
<tr>
<td>Hemacolour</td>
<td>3719</td>
<td>300 ml, 1L</td>
</tr>
<tr>
<td>Leishman</td>
<td>3879</td>
<td>1L, 2.5L</td>
</tr>
<tr>
<td>May-Grünwald</td>
<td>3855</td>
<td>500 ml, 1L, 2.5L</td>
</tr>
<tr>
<td>RetiCount</td>
<td>3774</td>
<td>30 ml</td>
</tr>
<tr>
<td>Sørensen Buffer 20x concentrated</td>
<td>3716</td>
<td>10 x 100 ml</td>
</tr>
<tr>
<td>Wright</td>
<td>3878</td>
<td>1L, 2.5L</td>
</tr>
</tbody>
</table>

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**Documentation**
Through our website [www.mallbaker.com](http://www.mallbaker.com)
or our specialized customer service department the following documentation about all our products is available:
- Material Safety Data Sheets (MSDS)
- Certificates of Analysis
- Specification sheets
- Validation reports
- Product information sheets

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**More Information**
All our products are distributed through our worldwide network of distributors. Some reagents are only available through specified instrument dealers. For all our Hematology products, the Certificates of Analysis and the Material Safety Data Sheets, please access our Clinical business group on our website [www.mallbaker.com](http://www.mallbaker.com) or contact our Customer Service by telephone 0031 570 687500 or send us an e-mail at: jtbaker.nl@emea.tycohealthcare.com.
How to contact Mallinckrodt Baker for your J.T.Baker Products

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