Product Information Reticount

Reticount is a special hematology stain intended for the identification of reticulocytes in blood smears and for counting the number of reticulocytes per 1000 erythrocytes by microscopic analysis.
J.T. Baker Reticount is for In Vitro Diagnostic Use.
Reticount is mixed with the blood sample and incubated briefly. A smear is made on a microscopic slide. After the smear is air dried the sample is evaluated using a microscope.
An erythrocyte will be counted as reticulocyte when it contains 2 or more blue-stained granules.

Composition

Reticount is water based solution and contains:
Potassium Oxalate
Sodium Chloride
Brilliant Cresyl Blue.

Stability and storage

Reticount stain solution should be stored in a tightly closed bottle at 15 - 30 °C. Stored at these conditions, the solution is guaranteed stable until the expiry date (2 years after production). Excessive unused material should be discarded after this period of time.

Preparation

Reticount is supplied as a ready-to-use solution.

Warnings

The usual precautionary measures should be followed in handling the chemicals. Reticount does not contain any relevant quantities of materials with critical values that should be monitored at the workplace.
Disposal of waste should be done according to local, state or national regulations.
For updated risk and safety information refer to Material Safety Data Sheet available at www.avantormaterials.com.

Specimen collection and preparation

Smears prepared after incubation of fresh blood with Reticount should be air dried. If smears are not prepared immediately, EDTA or sodium citrate should preferably be used as anticoagulant. Heparin interferes with Reticount and should not be used. If the procedure is not carried out within 2-3 hours, the blood should be stored at 4°C. Prior to staining the blood should be warmed again till room temperature and mixed thoroughly. Blood, older than 24 hours, should not be used.

Material required but not provided

- Microscope with oil immersion objective
- Microscope slides
- Immersion oil
- Test tubes.

Instructions for use

Single slide dip technique:

1. Mix in a plastic test tube 1 drop of Reticount with 3 drops of fresh whole human blood (anticoagulated with EDTA or citrate).
2. Incubate 15 minutes at room temperature or 37 °C.
3. Mix the content after incubation.
4. Make a smear of this mixture on a slide, in the same way as preparing blood smears.
5. The smear has to be air dried before microscopic examination.
6. The microscopic magnification should be 1000 (10 x 100).
7. The erythrocytes are homogeneous pale blue coloured. A reticulocyte is any red blood cell containing 2 or more blue-stained particles. These dark blue spots are coloured RNA, which is characteristic for reticulocytes.

Using a 1000 magnification (10x ocular and 100x oil immersion objective), randomly pick areas of the smear where red cells are close to each other but do not touch or overlap. Count 1000 RBC's including reticulocytes. The proportion of reticulocytes is calculated as:

Reticulocyte Count (%) = Total Number of Reticulocytes / 10

Normal adult values are 0.5 – 1.5%.

Because of variance in the hematocrit it may be necessary to correct the reticulocyte count to a normal hematocrit of 45%.

Corrected Reticulocyte Count (%) = Reticulocyte Count (%) x measured Hematocrit (%) / 45%

Availibility

Product Nr.	Product name	Pack size
3774	Reticount	30 ml

CE 15°C 30°C

Phillipsburg, NJ 9001:2008 & 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003
Gliwice, Poland 9001:2008 & 17025:2005
Selangor, Malaysia 9001:2008
Dehradun, India 9001:2008, 14001:2004 & 13485:2003
Mumbai, India 9001:2008 & 17025:2005

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Avantor Performance Materials manufactures and markets high-performance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron Fine Chemicals™, Rankem™, Diagnova™, BeneSphera™, and POCH™ brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in academic, industry and quality control laboratories for research, pharmaceutical production and medical lab testing, while our electronics solutions are used in the manufacturing of semiconductors and flat panel displays. Based in Center Valley, Pennsylvania (USA), Avantor is owned by an affiliate of New Mountain Capital, LLC.

For additional information please visit ***www.avantormaterials.com*** *or follow* ***www.twitter.com/avantor_news***

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