

XN CHECK™

Identification of the IVD reagent

XN CHECK™

Intended use

XN CHECK is intended to be used as a control for complete blood cell count (CBC), white blood cell differential, reticulocyte, and nucleated red blood cell (NRBC) parameters on Sysmex X series instruments.

Principles of the examination method

XN CHECK is to be used as a haematology control blood for the quality control of the Sysmex X series instrument system. Use of stabilized cell preparations for controlling haematology instrumentation is an established procedure. When handled like a patient sample and assayed in the QC Analysis of a properly calibrated and functioning instrument, XN CHECK will provide values within the expected range indicated on the assay sheet.

Components

XN CHECK includes stabilized human red blood cells, human white blood cells, a platelet and nucleated red blood cell component in a preservative medium.

Warnings and precautions

Do not inject or ingest.

All human source material used to manufacture XN CHECK was non-reactive for antigens to Hepatitis B (HBsAg), negative by tests for antibodies to HIV (HIV-1/HIV-2) and Hepatitis C (HCV), non-reactive for HIV-1 RNA and HCV RNA by licensed NAT, and non-reactive to Serological Test for Syphilis (STS) using techniques specified by the U.S. Food and Drug Administration. Because no known test method can assure complete absence of human pathogens, XN CHECK should be handled with appropriate precautions.

Storage and shelf life of unopened product

XN CHECK is to be stored closed at 2-8°C. When handled in this manner, XN CHECK is guaranteed stable until the expiration date stated on the package and vials.

Storage and shelf life after first opening

Open vials and vials which have been sampled by cap piercing will retain stability for 7 days if stored at 2-8°C after being re-capped.

Indications of product deterioration

If XN CHECK fails to perform within expected results as indicated on the assay sheet, there may be a problem with either the control blood, the reagents or the instrument in use. Proceed as follows:

1. Determine if the instrument system is operating properly and does not require cleaning or maintenance.
2. Check if the reagent system is within the expiration date, if the reagent system is not contaminated, if the reagents are stored properly, and etc.
3. Determine validity of XN CHECK (i.e. make sure the expiration date, or verify that it has not been frozen).
4. Assay an unopened vial of XN CHECK (i.e. verify if the opened vial is used over the period of 7 days).
5. Report any discrepancies to Technical Services of the nearest Sysmex authorized distributor.

Additional required equipment

XN CHECK is intended for only use with

diluents: CELLPACK DCL, CELLPACK DST, CELLPACK DFL.
lysing reagents: Lysercell WNR, Lysercell WDF, Lysercell WPC.
Hgb lysing reagent: SULFOLYSER.
staining reagents: Fluorocell WNR, Fluorocell WDF, Fluorocell RET, Fluorocell PLT, Fluorocell WPC.

Examination procedure

1. Remove a vial of XN CHECK from refrigerator, and equilibrate to room temperature (15-30°C) for 15 minutes before use.

2. In case you want to measure the sample in the manual analysis or you want to measure it for the first time (no measurements at all have been performed out of this vial on that day or the days before) in the sampler analysis, then mix the vial by end-to-end inversion until all red blood cells are completely re-suspended (approximately 20 inversions). This manual end-to-end inversion has not to be done, if you have already performed QC analysis on that day or the days before.
3. Analyze XN CHECK in the instrument QC Analysis according to the Sysmex X series Instructions for Use. The pierceable septum in the vial cap allows sampler analysis.
4. Return to refrigerator (2-8°C) storage.

Performance characteristics

Limitations of the examination procedure

The mean assay values for each parameter of XN CHECK are derived from replicate analyses on whole blood calibrated instrumentation. The assay values are obtained using instrument manufacturer's recommended reagents. The values obtained on XN CHECK should be within the expected range. The expected ranges listed on the assay sheet represent estimates of inter-laboratory variation for each parameter. Inter-laboratory variation is usually accounted for by instrument calibration, maintenance and operating technique. For this reason, the assay values given are guide-numbers useful for internal quality control, and shall not be used for calibration.

The white cell components have been treated to enhance their stability; therefore, they will not stain to demonstrate typical cell morphology. A microscopic differential analysis of white blood cells cannot be accomplished with XN CHECK.

The intended use of XN CHECK with Sysmex X series instruments is limited to those parameters for which assay values are provided. Values provided in QC analysis by the Sysmex X series instruments but not listed on the assay sheet should have their QC target and limit values set to 0 (zero) unless these values are established and accepted by the operating laboratory.

Assay values and limits have been established through exclusive use of Sysmex reagents, and are valid only with laboratory use of the same Sysmex reagent system.

Performance of the control product was established through analysis using the QC Analysis of operation of the X series instruments. Analysis of the product in the clinical laboratory should follow the same process as indicated in the instrument Instructions for Use.

Disposal procedures

This product should not be disposed in general waste but should be disposed with infectious medical waste. Disposal by incineration is recommended. Requirements of applicable local regulations must be considered.

Literature references

1. Henry, J.B. Clinical Diagnostic and Management by Laboratory Methods. Ed.17. W.B. Saunders. Philadelphia, PA 1984
2. Wintrobe, M.M. 'Clinical Hematology', 8th Edition, Lea and Febiger, Philadelphia, 1981.
3. Department of Labor, Occupational Safety and Health Administration. 29 CFR PART 1910. 1030: Occupational Exposure to Bloodborne Pathogens: Final Rule.

Manufacturer



Sysmex Corporation

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"Producer" on OEM-Basis:

STRECK, U.S.A.
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U.S. Patents 6,200,500;6,221,668;6,399,388;
6,403,377;6,406,915

Authorized representative / Distributors

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Product information

XN CHECK 3.0 mL / vial

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