

**FACILITY NAME
ADDRESS
BLOOD TRANSFUSION SERVICE**

PREVENTATIVE MAINTENANCE OF MTS EQUIPMENT

DISCLAIMER: This policy and procedure is approved for use within the (FACILITY NAME OR DISTRICT) Blood Transfusion Service (BTS) facilities ONLY. No liability will be assumed for its use outside the (FACILITY NAME OR DISTRICT). Any facility wishing to use this resource should carefully assess their specific needs before incorporating this document in whole or part. If any part of this document is used the (FACILITY NAME OR DISTRICT) BTS requests that applicable credit be included in the reference listing. – (NAME OF LABORATORY MANAGER), Manager, (FACILITY NAME OR DISTRICT) Blood Transfusion Service.

APPROVED BY:

	NAME & SIGNATURE	DATE
MEDICAL DIRECTOR		2005
TECHNICAL MANAGER		2005

SUPERSEDES:
REVIEWED BY:

NAME	SIGNATURE	DATE

DATE REMOVED FROM SERVICE:

PURPOSE

- To describe the required testing to assess the performance and function of all ID-MTS (ID-Micro Typing System™ equipment used in critical testing within the blood transfusion service of *(insert facility(ies) name(s))*.
- To describe the required testing to maintain ID-MTS (ID-Micro Typing System™ equipment used in critical testing within the blood transfusion service of *(insert facility(ies) name(s))*.

SCOPE

- The testing requirements described apply to all MTS centrifuges, MTS incubators, MTS dispensers and the ID-pipettor FP-2™/ID-tipmaster-repetitive dispense pipettor™ used in critical testing within the blood transfusion service as defined by *(insert facility(ies))*.

RELATED POLICIES/PROCEDURES

SOP	PROCEDURE NAME

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SOP	PROCEDURE NAME

OBJECTIVE

- To ensure that MTS equipment are performing according to manufacturer’s specifications to obtain accurate and precise critical testing results during blood transfusion testing.

FREQUENCY

Preventative maintenance of MTS equipment should be performed according to the following chart;

Equipment	Procedure	Frequency
MTS incubator	Cleaning	<ul style="list-style-type: none"> • Daily (according to manufacturer’s instructions)
	Temperature verification	<ul style="list-style-type: none"> • Prior to implementation • After repairs • Daily
MTS dispenser	Cleaning	<ul style="list-style-type: none"> • Weekly (according to manufacturer’s instructions)
	Volume Check	<ul style="list-style-type: none"> • Prior to implementation • After repairs • Quarterly
MTS centrifuge	Cleaning	<ul style="list-style-type: none"> • As required (according to manufacturer’s instructions)
	Digital display – RPM and Time	<ul style="list-style-type: none"> • Prior to implementation • After repairs • Daily
	RPM Check	<ul style="list-style-type: none"> • Prior to implementation • After repairs • Monthly
	Timer Check	<ul style="list-style-type: none"> • Prior to implementation • After repairs • Monthly
ID-Pipetor FP-2™/ ID-tipmaster- repetitive dispense pipettor™	Cleaning	<ul style="list-style-type: none"> • As required (according to manufacturer’s instructions)
	Volume Check	<ul style="list-style-type: none"> • Prior to implementation • After repairs • Annually (or according to manufacturer’s instructions)

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REFERENCES

- A Model Quality System for the Transfusion Service. Bethesda, MD: American Association of Blood Banks, 1997.
- Brecher, Mark E, ed. Technical Manual, 15th edition. Bethesda, MD: American Association of Blood Banks, 2002.
- CSA Standard Z902-04 Blood and blood components. Mississauga, ON: Canadian Standards Association, March 2004.
- Kavemeier, K.G., Watanabe Ziebell, L., Quality Control: A Component of Process Control in the Blood Bank and Transfusion Service. Bethesda, MD: American Association of Blood Banks, 1999.
- Issitt PD, Anstee DJ, Applied Blood Group Serology, 4th edition. Montgomery Scientific Publications, 1998: 175.
- Standards for Blood Banks and Transfusion Services: 23rd edition. American Association of Blood Banks, 2003.
- Standards for Hospital Transfusion Services: Version 1-September 2004. Canadian Society of Transfusion Medicine, 2004.

Written by: Victoria Hurlbut, Laboratory Standards Coordinator Date: Aug, 2005