

राष्ट्रीय जैविक संस्थान

स्वास्थ्य एवं परिवार कल्याण मंत्रालय  
भारत सरकार  
ए-32, सेक्टर-62,  
संस्थानत क्षेत्र,  
नोएडा - 201 309, उत्तर प्रदेश, भारत



NATIONAL INSTITUTE OF BIOLOGICALS

Ministry of Health & Family Welfare  
Government of India  
A-32, Sector - 62,  
Institutional Area,  
NOIDA - 201 309 (U.P.), INDIA

Phones : 0120 - 2400022, 2400074, 2593600; Fax : 0120 - 2403014; E-mail : info@nib.gov.in; Website : www.nib.gov.in

N.I-15/SRL PT/NRI/1324

Dated: 05.11.2020  
06

To,

Prof. Shampa Anupurba,  
HOD (Department of Microbiology),  
In-charge State Reference Laboratory,  
Banaras Hindu University,  
VARANASI - 221005 (Uttar Pradesh)

Sub: HIV EQAS proficiency panel (Round 1, 2020-2021) – Reg.

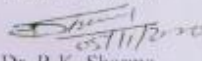
Dear Sir,

In reference to NACO EQAS calendar 2020-21, please find enclosed herewith two sets of HIV EQAS proficiency testing panels. Panel 'F' code (F 07) consisting of 8 members [1ml each] is to be tested at SRL and panel G [G675-G678] comprising of 4 members (~26 ml each) is to be tested by peripheral centres (JCTC/PPCTC). The SRL is further requested to aliquot the panel G in small volume (500 µl per member) and then distribute to its 52 test centres.

Please send the results of EQAS panel 'F' in the enclosed format by email within 8 working days. The compiled results of panel G should be sent within a month from the date of receipt of the sample by NIB.

With Regards,

Yours sincerely

  
Dr .R.K. Sharma  
NRL In-charge

Encl. As stated above

SAW  
11/11/20

विश्व स्वास्थ्य संगठन

एचआईवी, एचसीवी, एचबीएसएजी, सिफिलिस  
इन-विट्रो डायग्नोस्टिक एसेस की  
गुणवत्ता नियंत्रण के लिए सहयोग केंद्र



WORLD HEALTH ORGANIZATION

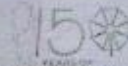
Collaborating Centre for Quality Control of  
HIV, HCV, HBsAg and syphilis in-vitro  
diagnostic assays



राष्ट्रीय एड्स अनुसंधान संस्थान  
NATIONAL AIDS RESEARCH INSTITUTE

(राष्ट्रीय चिकित्सा अनुसंधान परिषद)  
(National Council of Medical Research)

WHO Collaborating Centre for HIV Diagnosis and Monitoring of Antiretroviral Therapy



Ref No.: ICMR-NARI/NACO/2020/

Date: 05.11.2020  
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To,  
Dr. R. K. Sharma,  
NRI Incharge  
National Institute of Biologicals,  
A-32, Sector-62 (Institutional Area),  
Noida-201309 (U.P.) - India.

Subject: - Results of samples for panel validation.  
Re: Your letter No. 1-15/Workshop/NRI/1270, dated 29.10.2020

Dear Dr. Sharma

We had received 06 panel samples for validation on 02.11.2020. The samples have been tested for antibodies to HIV-1 & HIV-2. I am enclosing the results herewith.

Sr. No	NARI No.	NRL ID No.	NRL Result	NARI Results			Final Interpretation
				Microlisa HIV	Meriscreen HIV 1-2	Tredro HIV 1-2 Ab	
1	20-6704	F1/R-1/2020-21	HIV-1 POS	Reactive	HIV-1 Reactive	HIV-1 Reactive	HIV-1 POS
2	20-6705	F2/R-1/2020-21	NEG	Non-Reactive	ND	ND	NEG
3	20-6706	F3/R-1/2020-21	NEG	Non-Reactive	ND	ND	NEG
4	20-6707	F4/R-1/2020-21	NEG	Non-Reactive	ND	ND	NEG
5	20-6708	F5/R-1/2020-21	HIV-1 POS	Reactive	HIV-1 Reactive	HIV-1 Reactive	HIV-1 POS
6	20-6708	F6/R-1/2020-21	HIV-1 POS	Reactive	HIV-1 Reactive	HIV-1 Reactive	HIV-1 POS

Keywords: POS- Positive, NEG-Negative

Thanking You,

Yours Sincerely,

*M. Thakar*

Dr. Madhuri Thakar  
Scientist F & Apex Lab Incharge  
NARI, Pune

**Cumulative Report of Testing Centers (ICTCs/Blood Banks) Under SRL**

Round-Ist

Name Of SRL: SRL Department of Microbiology IMS BHU Varanasi

No. of ICTC: 54

No. Of Blood Banks: 12

SRL Panel Code : Q1,Q2,Q3,Q4

S.No.	District	Name of ICTC/Blood Bank	Panel Results Reported by Centers				% Concordance	No. of Discrepant results	Name of the Tests used (Lot No. & Exp. Date)		
			G-677	G-675	G-678	G-676			Test 1	Test 2	Test 3
			R	NR	R	NR					
1	AMETHI	Joint District Hospital Gauriganj	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023662, 14/07/2022	MERISCREEN HIV M11918, 02/21	Tredro MI91920,08/21
		CHC Jagdishpur Amethi	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023662, 14/07/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		CHC Tiloi	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M111918, 04/21	Tredro MI91920,08/21
		CHC Amethi	Q4	Q2	Q3	Q1	100%	NIL	COMB AIDS 400023662,14/7/2022	MERISCREEN HIV M111918, 04/21	Tredro MI91920,08/21
5	AZAMAGARH	D.H. Azamgarh	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 05/21	Tredro MI91920,08/21
		D.W.H. Azamagarh	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M12046, 12/21	Tredro MI12046,12/21
		CHC Harriya	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M12046, 07/21	Tredro MI91920,08/21
		CHC Koisiya	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		CHC Mehnagar	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		CHC Jeeyanpur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		CHC Maharajganj	Q1	Q4	Q2	Q3	Not Participated	Not Participated	Not Participated	Not Participated	Not Participated (LT & Counselor post vacant)
		CHC Bardah	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 05/21	Signal 400020251,02/06/21
		CHC Bilariya ganj	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M12046, 07/21	Tredro MI91920,08/21
		CHC Lalaganj	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M12046, 07/21	Tredro MI91920,08/21
		CHC Phoolpur	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 15/02/2022	MERISCREEN HIV M11918, 05/21	Tredro MI91920,08/21
		PPC Mughalsarai	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		CHC Sakaldiha	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		CHC Chakiya	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		D.H.Chandauli	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
PHC Niyamatabad	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21		

21	GHAZIPIUR	CHC Barahani	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	M112142, 05/21	Tredro MI91920,08/21
		CHC Dhanapur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023662, 14/7/2022	M112142, 05/21	Tredro MI91920,08/21
24	GHAZIPIUR	CHC Mohammadabad	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160, 15/02/2022	M112142, 12/20	Tredro MI91920,08/21
		CHC Jakhania	Q1	Q4	Q2	Q3	100%	NIL	MERISCREEN HIV M11918, 12/20	COMB AIDS 400023160 05/2022	Tredro MI91920,08/21
		CHC Saidpur	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160, 15/02/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
25	GHAZIPIUR	CHC Ghazipur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		D.W.H. Ghazipur	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 15/02/2022	MERISCREEN HIV M11942, 12/20	Tredro MI91920,08/21
27	JAUNPUR	CHC Mariahu	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		D.H. Jaunpur	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 12/20	Tredro MI91920,08/21
29	JAUNPUR	D.W.H. Jaunpur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023662, 14/07/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		CHC Vindhychal	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 04/21	Tredro MI91920,08/21
31	MIRZAPUR	ICTC CHC Chunar	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 04/21	Tredro MI91920,08/21
		CHC Rajgarh	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
32	MIRZAPUR	D.W.H. Mirzapur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M12046, 12/21	Tredro MI91920,08/21
		CHC Duddhi	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
35	SONEBHADRA	CHC Ghorawal	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		D.C.H.Sonebhadra	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		CHC Muirpur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
36	SONEBHADRA	CHC Chopan	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		D.C.H. GYANPUR	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI12046,12/21
41	SULTANPUR	D.H. Sultanpur	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
		D.W.H. Sultanpur	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
42	VARANASI	Lal Bahadur Shashtri Hospital, Ramnagar	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		CHC-Cholapur	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 01/20	Tredro MI91920,08/21
44	VARANASI	PHC-Chiragaon	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11942, 05/21	Tredro MI91920,08/21
		PHC-Pindra	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M12046, 07/21	Tredro MI12046,12/21
45	VARANASI	SSPG D.H. Varanasi	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 400023160 15/2/2022	MERISCREEN HIV M11918, 05/21	Tredro MI91920,08/21
		D.W.H. Varanasi	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21
46	VARANASI	Pt. D.D.U. Varanasi	Q2	Q3	Q1	Q4	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI12046,12/21
		Central jail Varanasi	Q3	Q1	Q4	Q2	100 %	NIL	COMB AIDS 400023160 05/2022	MERISCREEN HIV M11918, 12/20	Tredro MI91920,08/21

51	IMS BHU Varanasi	Q1	Q4	Q2	Q3	100 %	NIL	COMB AIDS 4000023160-05/2022	MERISCREEN HIV MH121917_05/21	Tredra MI91920,08/21
52	PPTCT SS Hosppital BHU	Q4	Q2	Q3	Q1	100 %	NIL	COMB AIDS 4000023160-05/2022	MERISCREEN HIV MH121917_05/21	Tredra MI91920,08/21
53	ABRTP Hidarco Sonebhadra (PPP ICTC)	Q2	Q3	Q1	Q4	100%	NIL	MERISCREEN HIV MH121942_05/21	NA	NA
54	ICTC Appolo Tyre Heath center QVaranasi (PPP ICTC)	Q1	Q2	Q3	Q4	100%	NIL	MERISCREEN HIV MH121942_05/21	NA	NA
Standard Result		Pos	Neg	Pos	Neg					

Name of Laboratory In-charge:

Date

*S/A*  
Prof. S. Anupura  
Head & Incharge ICTC/S.R.I  
Department of Microbiology  
IMS, BHU Varanasi

*S/A*  
Signature of Laboratory In-charge

Prof. S. Anupura  
Head & Incharge ICTC/S.R.I  
Department of Microbiology  
IMS, BHU Varanasi



Proficiency Testing (PT)

To be completed by SRL

i  
1  
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4  
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ii  
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Name of the State:  \* All the fields are mandatory  
 Name of District:  \*  
 Name of linked SRL:  \*  
 Email Address:  \*  
 Name of the ICTC:  \*  
 SMS Code / ID:  \*  
 Round:  \* Year:  \*

Proficiency Testing Samples

RCA/CA done for discordant samples for last round:  Root Cause Analysis (RCA), Corrective Action (CA)  
 Sample received Date:  Sample tested Date:   
**Filed by SRL**  

Member-A, result: <input type="text" value="Positive"/>	Concordant/Discordant: <input type="text" value="Concordant"/>
Member-B, result: <input type="text" value="Positive"/>	Concordant/Discordant: <input type="text" value="Concordant"/>
Member-C, result: <input type="text" value="Negative"/>	Concordant/Discordant: <input type="text" value="Concordant"/>
Member-D, result: <input type="text" value="Negative"/>	Concordant/Discordant: <input type="text" value="Concordant"/>

 Remarks by ICTC:  PT Final Result:   
 Date & time of data submitted by ICTC:   
 Remarks by SRL:   
 Date & time of data submitted by SRL:

Print

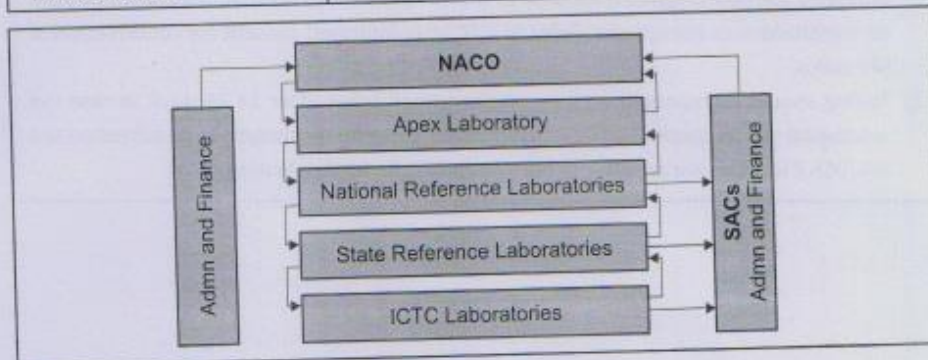
Please cross check all details before submitting

## The Management of HIV Testing and Reference Laboratories

HIV testing in the National AIDS Control Programme (NACP) is performed by the Integrated Counselling and Testing Centres (ICTCs) and Blood Banks. Quality control for HIV testing is implemented through a chain of SRLs, NRLs and Apex Laboratory.

**Table 7.1. Roles and responsibilities of laboratories under the NACO laboratory network**

Level	Functions
Tier 1: Apex Laboratory: NARI	To provide technical assistance to the NACP To provide leadership to the laboratory network through NRLs Mentoring and monitoring of NRLs Training and capacity building of NRLs Implementing proficiency testing (EQA) for NRLs
Tier 2: National Reference Laboratories (13)	Mentoring and monitoring of SRLs Training and capacity building of SRLs Implementing proficiency testing (EQA) for SRLs Resolving the retesting discordant results from SRLs
Tier 3: State Reference Laboratories (117)	Mentoring and monitoring of ICTC Labs Training and capacity building of ICTC Labs Implementing proficiency testing (EQA) for ICTC Labs Quarterly rechecking of samples tested (20% positive and 5% negative) at ICTC labs as quality control Resolving the retesting discordant results from ICTC Labs
Tier 4: ICTC Labs (15,606)* Stand alone ICTC: 5694 Mobile ICTC: 124 F-ICTC : 8810 PPP (Public and Private Partnership) ICTC: 1977 * Till March 2014.	Perform HIV tests as per national guidelines Participating in proficiency testing and quality control activities Participate in training activities conducted by SRLs



## Operational Management of NACO Laboratories (National Reference Laboratory, State Reference Laboratories & ICTC)

### Introduction

This chapter underlines the policies and procedures for proper design, execution and uninterrupted operations of the NRL, SRL and ICTC laboratories to ensure quality services on a day-to-day basis.

### Scope

The scope of the laboratory defines its operating unit and its activities. In the case of an ICTC it includes counselling, sample collection, sample processing and testing for the diagnosis of HIV infection; whereas NRLs and SRLs facilitate the quality of testing at the ICTCs, along with training and surveillance activities. The laboratories should define their scope accordingly.

### Organisation

The laboratory should have an organogram with the designation, name, and contact details of every member of the staff associated with the laboratory. The staff should be aware of the organogram, which should be designed in such a way that staff backup is available at every level in their absence.

### Laboratory Arrangement

The laboratory must have separate designated areas for counselling, sample collection, washing, workstation, storage, and documentation. Steps must be taken to ensure privacy in the counselling and collection rooms. Each area must be properly labelled with biohazard symbols displayed in the workstation area and there restricted access to the laboratory.

### Role and Responsibility

The role and responsibility of each member of the staff must be defined and documented. Staff must be aware of their individual, as well as collective role and responsibility. The following are some of the responsibilities of the laboratory staff:

- ▶ Daily assignment of work to technician (by laboratory in-charge)
- ▶ Monitoring of the laboratory environment, including temperature log and cleaning log
- ▶ Ensuring proper biosafety including PPE
- ▶ Stock verification (physical) - at the beginning and the end of each day
- ▶ Preparation of fresh 0.1 percent and 1 percent sodium hypochlorite solution every morning.