

# TRICARE SERVICE SOLUTION

Puthenangady road, Kottayam : 686001.

Email Id: [tricare@mail.com](mailto:tricare@mail.com) Ph: 0481-2934059

Mob: 8075224059

## BA-88A

Semi-Auto Chemistry Analyzer



### Instrument Calibration/Validation Certificate

Customer name	Hi Tech Laboratory & ECG
Address	KFPSA Shopping Complex, Near Union Bank, Kulathupalam, Kumily 685509
Instrument	MINDRAY BA 88A
Serial Number	WR-21042153
	<input checked="" type="checkbox"/> WARRANTY <input checked="" type="checkbox"/> AMC <input checked="" type="checkbox"/> RRC
Calibration	11.11.2021
Installation Date	11.11.2021
Due Date	10.11.2022



When you look for **QUALITY IN SERVICE**

## Instrument Condition

Room is Air-Conditioned	YES <input checked="" type="checkbox"/>	NO
Power Supply Earthing less than 3 V	YES <input checked="" type="checkbox"/>	NO
Room working environment is Good	YES <input checked="" type="checkbox"/>	NO

## Initial Check

• Switch on the instrument with Fluidic wash	<input checked="" type="checkbox"/> YES	NO
• Instrument is Initializing Properly	<input checked="" type="checkbox"/> YES	NO
• Display is showing all characters	<input checked="" type="checkbox"/> YES	NO
• aspiration volume checked	<input checked="" type="checkbox"/> YES	NO
• Peristatic motor checked	<input checked="" type="checkbox"/> YES	NO
• Lamp is Glowing	<input checked="" type="checkbox"/> YES	NO
• Touch Calibration working properly	<input checked="" type="checkbox"/> YES	NO
• Filter check passed	<input checked="" type="checkbox"/> YES	NO

## Validation

Performing parameter Check while startup:

TEST	DARK CURRENT	BACKGROUND
FILTER 340nm	111	51612
FILTER 405nm	97	57544
FILTER 505nm	83	56430
FILTER 546nm	89	56714
FILTER 578nm	81	55901
FILTER 620nm	82	58312
FILTER 660nm	79	54714
FILTER 700nm	76	57860



*When you look for QUALITY IN SERVICE*

## Performance Check

- Reagent/sample aspiration 500ul YES
- Blanking is proper YES
- Results are satisfactory YES
- Run 20 times sample /reagent aspiration YES
- Run Calibrations YES
- Run QC material for several applications YES

TEST	TARGET VALUE	TARGET CV%	MEAN RESULT	CV%
SAMPLE	500ul	<1	497	0.83
REAGENT	500ul	<1	496	0.81

## Chemical Installation

- Run Reagent blank
- Run Calibrators
- Run QC materials for several clinical chemistry applications

TEST	QC LEVEL RANGE 1	TEST RESULT	QC LEVEL RANGE 2	TEST RESULT
GLUCOSE	73.5-102	88	240-333	270
CHOLESTEROL	225-272	243	89-114	100
TGL	160-206	179	83-117	101
ALBUMIN	3.72-4.65	4.1	2.5-3.2	2.8
SGPT	22-35	26	85-111	98
URIC ACID	5.43-7.63	6.68	8.21-9.9	9.3
SGOT	3.8-46.8	42	172-220	192

Remarks:

- Instrument is calibrated and working in good condition
- Tested samples and found results are satisfactory

This calibration is valid from 11.11.2021 to 10.11.2022

Next Calibration is due on 12.11.2022

Technical Acceptance By,

Jobin Joseph  
Service Engineer



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### Installation Qualification

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Instrument	MINDRAY BA 88 A
Serial Number	WR-21042153
	<input checked="" type="checkbox"/> WARRANTY <input checked="" type="checkbox"/> AMC <input checked="" type="checkbox"/> RRC
Installation Date	11.11.2021



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## Initial Check

Machine is in good condition  YES

Not damaged /no missed parts  YES

## Installation

Perform the next steps

- Install the aspiration tube
- Power up the Analyzer
- Start up the analyzer software
- Set System parameters
- Run "background and base current"
- Initialized water blank
- Run sample and QC

Results:

TEST	TARGET VALUE	TARGET CV%	MEAN RESULT	CV%
SAMPLE	500ul	<1	497	0.83
REAGENT	500ul	<1	496	0.81

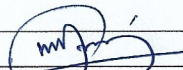
## Chemical Installation

- Run Reagent blank
- Run Calibrators
- Run QC materials for several clinical chemistry applications (kinetic endpoint fixed time tests are performed)

TEST	QC LEVEL RANGE 1	TEST RESULT	QC LEVEL RANGE 2	TEST RESULT
GLUCOSE	73.5-102	88	240-333	270
CHOLESTEROL	225-272	243	89-114	100
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When you look for QUALITY IN SERVICE



CUSTOMER REPORT	INSTALLERS REPORT	
	Installation done successfully	
CUSTOMER DETAILS	<table border="1"> <tr> <td> <b>Hi Tech Laboratory &amp; ECG</b>  <b>KFPSA Shopping Complex, Near</b>  <b>Union Bank, Kulathupalam, Kumily</b>  <b>685509</b> </td> </tr> </table>	<b>Hi Tech Laboratory &amp; ECG</b> <b>KFPSA Shopping Complex, Near</b> <b>Union Bank, Kulathupalam, Kumily</b> <b>685509</b>
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SIGNATURE OF CUSTOMER		
INSTALLERS DETAILS	Tricare Service Solution XVIIII 357/C Puthanaggady Road Kottayam 682001	
SIGNATURE OF THE INSTALLER	JOBIN JOSEPH 	



# TRICARE SERVICE SOLUTION

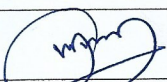
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## Operational Qualification

- Remove all the transitional accessories/Clips/Packing
- Connect the waste tubing
- Switch on the system and check the display
- Check the initializing process
- Check the key pad keys
- Set system parameters
- Check valves and motor in the service menu
- Check aspiration of liquid by pressing flush key
- Check filter wheel movement and absorbance for each filter
- Check the temperature of the peltier element

CUSTOMER REPORT	INSTALLERS REPORT
	Verified all the operational qualifications. It is successful
CUSTOMER DETAILS	<b>Hi Tech Laboratory &amp; ECG</b> <b>KFPSA Shopping Complex, Near</b> <b>Union Bank, Kulathupalam, Kumily</b> <b>685509</b>
SIGNATURE OF CUSTOMER	
INSTALLERS DETAILS	Tricare Service Solution XV111 357/C Puthanaggady Road Kottayam 682001
SIGNATURE OF THE INSTALLER	JOBIN JOSEPH 



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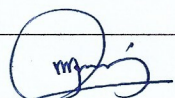
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## Performance Qualification

TEST	DARK CURRENT	BACKGROUND	STATUS
FILTER 340nm	111	51612	OK
FILTER 405nm	97	57544	OK
FILTER 505nm	83	56430	OK
FILTER 546nm	89	56714	OK
FILTER 578nm	81	55901	OK
FILTER 620nm	82	58312	OK
FILTER 660nm	79	54714	OK
FILTER 700nm	76	57860	OK

## QUALITY CONTROL

TEST	QC LEVEL RANGE 1	TEST RESULT	QC LEVEL RANGE 2	TEST RESULT
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CHOLESTEROL	225-272	243	89-114	100
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SIGNATURE OF CUSTOMER	
INSTALLERS DETAILS	Tricare Service Solution XV111 357/C Puthanaggady Road Kottayam 682001
SIGNATURE OF THE INSTALLER	GOBIN JOSEPH 

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