

Andrology Lab Setup (Level - III)

Andrology Lab Setup

- (A) Sperm Soft**
- (B) Instrument & Accessories**
 - 1.0 Sperm Meter with grid
 - 2.0 Sperm Meter without grid
 - 3.0 Sperm Warmer
 - 4.0 Sperm Vision (103i)
 - 5.0 Androspin
 - 6.0 Andro-chem Analyser
 - 7.0 DNA Warmer
 - 8.0 Slide Warmer
 - 9.0 Andro-table
- (C) Plastic Ware & Disposable**
- (D) Kits & Media**
- (E) Test Perform**
 - Diagnostic Level
 - Treatment Level



(A) Sperm Soft (CASA) :

Sperm Soft

**Human Input Enabled Comprehensive CASA
(Computer Assisted Semen Analyzer)**

A system For Analyzing Fertility Potential of Sperm

Patent Application No. (1200 / RQ- MUM / 2014)

sperm soft

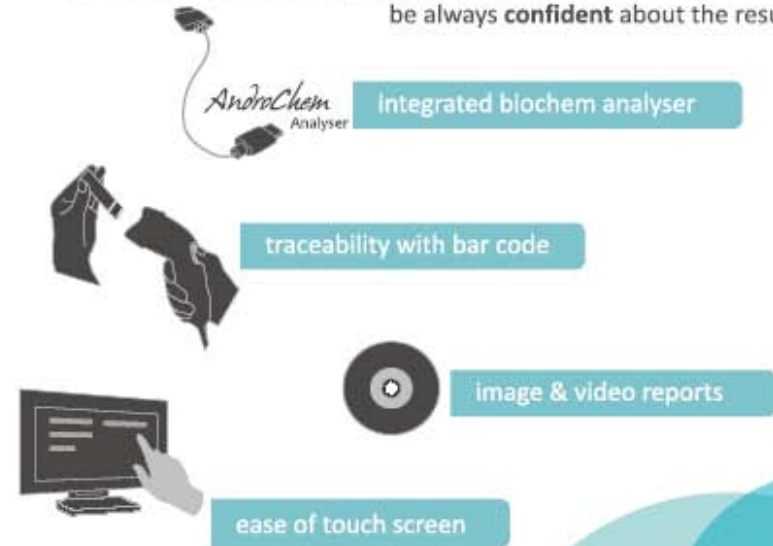
CASA & You

for the first time ever a CASA that includes You...
 introducing Expert Mode
 where the *technology* helps you go beyond *technology*



SpermSoft is par image processing
 It's is not just a software but a complete stand-alone system
 that will surely be a backbone of your andrology lab...

SpermSoft is developed with a bunch of exciting features
 so that you can work with **ease & convenience** and
 be always **confident** about the results





- **The stand-alone system comes with,**
 - Negative phase contrast microscope & all accessories
 - USB 3.0 CCD Camera
 - 23" touch screen all-in-one computer with stylus
 - barcode reader & printer
 - Colour inkjet printer

Optional :

- Computer Setup for
Reception (Patient Registration & Report)
- 10" tablet – windows OS
- Androchem Analyser – optional
(With R32 cable)



- **Software : Provision for**
 - Patient Registration
 - Sample Collection Details
 - Slide Preparation details
 - Test Finding Details
 - Automated Mode
 - Expert Mode
 - Manual Mode
 - Report
 - Softcopy
 - Hardcopy
 - Bio-statistics
 - Quality Control
 - Andro-watch with multiple setting : Simultaneous working



- **Barcodes :**

- Patient registration, Sample Number & Slide Number supported with Barcode.

- **Reports:**

- Softcopy report consist of :
 - Data report supported by barcode.
 - Image / video evaluated by operator
 - Compression Report
 - Bar & Pie diagram
- Hardcopy report consist of :
 - Data report supported by barcode.
 - Compression Report
 - Bar & Pie diagram

Remark : On demand still images can be print out

- **Widest range of tests,**

Tests	Automated Mode	Expert Mode	Manual Mode
Routine semen analysis	✓	✓	✓
Morphology	✓	✓	✓
Vitality	✓	✓	✓
HOS	NA	✓	✓
Nuclear Protein Assay	✓	✓	✓
DNA Fragmentation	✓	✓	✓
Leukocytes	✓	✓	✓
Antisperm-Antibody	NA	✓	✓
α-Glycosidase	✓	NA	✓
Fructose	✓	NA	✓
Zinc	✓	NA	✓

- **Andro-watch :**

- Provision to adjust the time schedule for all the test, setup wise
- At a time 3 parameter time set can be adjusted
- All the set watch run independently of software working

- **Andro-chem Analyser :**

- All the test results of Andro-chem Analyser can be transfer by R32 cable to the Sperm Soft.
- These can be filled in appropriate patient test result form.

(B) Instrument & Accessories :

1.0 Sperm Meter™ (Semen Analysis Chamber) with Grid

SP/INT/001-A

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Sperm Meter™ is designed and development by Sperm Processor with following features :

- CE accredited product.
- ISO 13485:2003 Certified Product for Design, Development & Supply by Standard Australia International.
- Designed to suite the stage of Microscope, avoid the use of 40x objective lens.
- Each Sperm Meter has been given one unique Number.
- Dimensional Consistency – 10 μ depths with certification by certified authority.
- Define Micrometric area on optically flat 1 mm thick cover slip,
(1.000mm x 1.000mm) divided into 100 Square,
0.100 mm Micrometric area certification by certified authority.



2.0 Sperm Meter™ (Semen Analysis Chamber) without Grid

SP/INT/001-B

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Sperm Meter™ is designed and development by Sperm Processor with following features :

- CE accredited product.
- ISO 13485:2003 Certified Product for Design, Development & Supply by Standard Australia International.
- Designed to suite the stage of Microscope, avoid the use of 40x objective lens.
- Each Sperm Meter has been given one unique Number.
- Dimensional Consistency – 10 μ depths with certification by certified authority.



3.0 Sperm Warmer™

SP/INT/004-A

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

A precise microprocessor based temperature controller with digital temperature display PT 100 sensor with accuracy of $\pm 0.4^{\circ}\text{C}$ and digital key pad to set temperature. Aluminum blocks for semen collection Containers, Straight centrifuge tube and inclined at an angle of 30° for swim up technique.





4.0 Sperm Vision™ (103i)

Accredited
CE
Certified
★ ISO 13485 : 2003

SP/INT/005-A

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Phase Contrast Microscope :

Specification :

Part Frame :

- UCIS Infinity Independent Achromatic Optical System.
- WF 10x plan eyepieces, 20 mm field of view, high eye point up to 21 mm.
- Seidentopf Trinocular viewing head inclined 30°, Rotatable 360°.
- ± 5 diopter adjustment
- 0.5X CCD Camera mount
- Phase Contrast Slide
- Quadruple nosepiece inward facing with positive click Stops

Objective Lens :

- - 10 x & - 20 x : Positive Phase Contrast Objective Lens
- - 40 x (S) : Plan achromatic Objective Lens
- - 100 x (S) : Plan achromatic Objective Lens
- Rackless mechanical stage : 156 x 138mm platform, with X / Y travel of 76 x 54mm by low-positioned X / Y coaxial control knob, with scale mark and specimen-slide clip, enough space to hold 2 specimen-slide.
- Coaxial coarse and fine focus mechanism with marking, Fine focus sensitivity 0.001mm.
- Centering Telescope to adjust phase contrast
- Dust Cover, Clear Blue Filter, Power Cord, Immersion Oil.





5.0 Androspin

SP/INT/006-A

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Specification :

- This is a centrifuge machine having angle head rotor with four (4) aluminum test tube holders.
- Its centrifugation operation is up to 2000 rpm, works only at $37^{\circ}\text{C} \pm 1^{\circ}\text{C}$.
- There is a facility of programming time & RPM (G-Force).
- The maximum RPM achievable is 4000 RPM.
- The Androspin is, 'ISO 13485 : 2003' & 'CE' accredited.



8.0 Andro-chem Analyser :

SP/INT/008

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Specification :

- Design instrument for Quantitative estimation of Zinc, α -Glycosidase & Fructose in seminal plasma.
- Preset programme for Zinc, α -Glycosidase & Fructose
- Facility to set the time alarm
- Final Result are displayed at the end of test
- There is provision to programme two new test
- Provision of Result Data Transfer Facility to set the Time Alarm.
- In built 37⁰C incubator block
- The Andro-chem Analyser is, 'ISO 13485 : 2003' & 'CE' accredited.



9.0 DNA Warmer :

SP/INT/004-C

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Specification :

- DNA Warmer is used during “DNA Fragmentation Test” as per the requirement of test.
- Design instrument having facility of 70°C & 37°C compartment.
- Pre-set temperature setting
- The DNA Warmer is, ‘ISO 13485 : 2003’ & ‘CE’ accredited.



10.0 Slide Warmer :

SP/INT/004-B

H. S. Code : 901890

Make : Sperm Processor Pvt. Ltd., India

Specification :

- Glass slide warmer to be used for warm up the slide after staining procedure.
- Design to maintain the working agronomy.
- Dual Temperature Display (Ongoing & set temperature).
- Facility to set desire temperature (Usually set temperature 40 – 45⁰C)
- The Slide Warmer is, 'ISO 13485 : 2003' & 'CE' accredited.



11.0 Andro-table :

SP/LAB/001

Make : Sperm Processor Pvt. Ltd., India

- 5' X 6', ergonomically designed table which makes lowest foot print Andrology lab
- Three Compartment
 - CASA Compartment
 - Slide preparation Compartment
 - CASA Compartment
 - Bio-chem Compartment
- Provision Of 4 Drawer, Space for printer, Small Fridge & Androspin
- 'Argonomically ' Distribution of Instrument site.



ACCESSORIES & DISPOSABLE

Trays :			
•	Slide Staining Tray	01	
•	DNA Slide Immersion Tray	01	
•	Glass Slide Tray Horizontal	01	
•	Glass Slide Tray Vertical	01	



♣ Accessory			
• Volumetric Pipette Set	01	SP/ACC/001 – A	
• Micro Tips Box	01	SP/ACC/012 – A	
• Glass Slide Stand (Horizontal)	01	SP/ACC/002-A	
• Glass Slide Stand (Vertical)	01	SP/ACC/002-B	
• Glass Slide Box	01	SP/ACC/003	
• Test Tube Stand	02	SP/ACC/004	
• Test Tube Holder	01	SP/ACC/005	
• Spirit Lamp	01	SP/ACC/006	
• Kidney Tray	01	SP/ACC/007	
• Coupling Jar	04	SP/ACC/008	
• Scissor	01	SP/ACC/009	
• Wash Bottle	01	SP/ACC/010	
• Marker Pen	01	SP/ACC/011	
• Waste Box	01	SP/ACC/013	
♣ Disposable :			
• Micro Tips	01	SP/PAD/011 – A	
• Glass Slide	01	SP/PAD/012	
• Cover Slip	01	SP/PAD/013	
• Hand Gloves	01	SP/PAD/021	
• Tissue Paper	01	SP/PAD/017	



(C) Plasticware & Disposable :

1.0 Sperm Trans

SP/PAD/001

H. S. Code : 901830

- Sperm Trans™ (Intrauterine Insemination Device) With CE (1299) accredited
- ISO 13485 : 2003 certified product with following features
- **Length** : 17 cms.
- **Tubing** : Flexible for operation & motile sperm does not stick to the wall of tubing.
- **Tip forming** : With ultramodern technique resulted in Smooth surface forming.
- **Side holes** : Consistent in size, without flush & burr.
- **Hub design** : Facilitate the direction of IUID.
- **Packing** : Take pouches as per International norms.
- **Sterilization** : Gamma irradiation.
- **REMARK:**
 - Sperm Trans is Registered Trademark of Sperm Processor Pvt. Ltd.
 - Sperm Trans, HUB design is Registered No. 191777, Dated 4th April 2003 with Govt. of India the patent office.



☛ All Are Individually Packed

☛ All Are Gamma Irradiated

2.0 Semen Collection Container :

Wide Mouth Container with Proper Label

SP/PAD/002

3.0 Test Tube :

15 ml Test Tube with volume label marking.

SP/PAD/003-A

4.0 Pasteur Pipette :

1 ml capacity of Pasteur pipette

SP/PAD/004


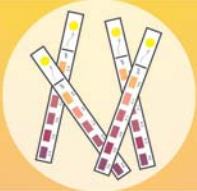








• All Are Individually Packed


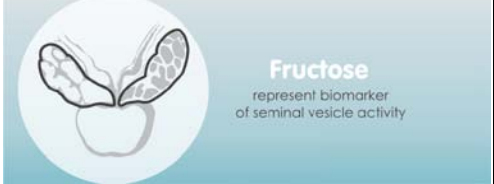
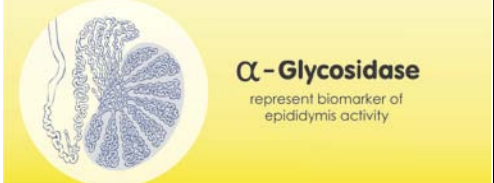


• All Are Gamma Irradiated


(D) Kits & Media :

Kits

Sr. No.	H. S. Code	Product Code	Product Details	Pack Size
1.0	382200	SP/SFT/VS-001-A & SP/SFT/VS-001-B	 <p>Viscosity reagent for hyper viscous semen</p>	2 ml
2.0	382200	SP/SFT/PH-002	 <p>Semen pH semen pH determination</p>	1 Kit (100 Tests)
3.0	382200	SP/SFT/V-003-A	 <p>Vitality evaluation of sperm membrane structural integrity</p>	1 Kit (100 Tests)
4.0	382200	SP/SFT/H-004	 <p>HOS evaluation of sperm membrane structural & functional integrity</p>	1 Kit (100 Tests)

Sr. No.	H. S. Code	Product Code	Product Details	Pack Size
6.0	382200	SP/SFT/MP-005-A	 <p>Morphology evaluation of sperm morphology by Diff-Quick Staining method</p>	1 Kit (100 Tests)
7.0	382200	SP/SFT/MP-005-B	 <p>Morphology evaluation of sperm morphology by Pap Staining method</p>	1 Kit (50 Tests)
8.0	382200	SP/SFT/L-006	 <p>Leukocytes detection of leukocytes by using peroxidase test</p>	1 Kit (100 Tests)
9.0	382200	SP/SFT/NP-008	 <p>Nuclear Protein Assay sperm nuclear protein assay using "Aniline Blue" staining</p>	1 Kit (100 Tests)

Sr. No.	H. S. Code	Product Code	Product Details	Pack Size
10.0	382200	SP/SFT/DNA-009	 <p>DNA Fragmentation sperm chromatin dispersion test</p>	1 Kit (10 Tests)
11.0	382200	SP/SFT/F-012	 <p>Fructose represent biomarker of seminal vesicle activity</p>	1 Kit (50 Tests)
12.0	382200	SP/SFT/α-011	 <p>α-Glycosidase represent biomarker of epididymis activity</p>	1 Kit (50 Tests)
13.0	382200	SP/SFT/Z-013	 <p>Zinc represent biomarker of prostate activity</p>	1 Kit (50 Tests)
14.0	382200	SP/SFT/ASA-007-A & SP/SFT/ASA-007-A	 <p>Antisperm - Antibody MAR Test (mixed antiglobulin reaction)</p>	1 Kit (50 Tests) For IgG or IgA

Sr. No.	H. S. Code	Product Code	Product Details	Pack Size
15.0	382200	SP/MED/001	 Sperm Function Test Kit™	1 Kit (100 Tests)
Kit Contain : • Viscosity, • Semen pH, • Vitality, • HOS, • Morphology, • Fructose (Qualitative)				
Utility : Used to determine Sperm Functions.				
16.0	-----	-----	Normal Saline	-----
17.0	-----	-----	Immersion oil	-----



(F) All the Test Perform with the help of Sperm Soft :

1.0 Diagnostic Level :

- **Semen Analysis as per WHO Norms**
- **Sperm Function Test**
 - Viscosity
 - Semen pH
 - Vitality
 - HOS
 - Morphology - D
 - Qualitative estimation of Fructose
 - Leukocyte Detection Test
 - Nuclear Protein Assessment
 - DNA Fragmentation Test
 - Quantitative estimation of –
 - Zinc
 - Fructose
 - Alpha-Glycosidase
 - Antisperm – Antibody Test

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