

Andrology Lab Setup (Level-I)



Andrology Lab Setup

(A) Instrument & Accessories

- 1.0 Sperm Meter For Upright Microscope
- 2.0 Sperm Warmer
- 3.0 Sperm Vision
- 4.0 Centrifuge Machine
- 5.0 Andrology Station

(B) Plastic Ware & Disposable

(C) Kits & Media

(D) Test Perform

- Diagnostic Level
- Treatment Level

(A) Instrument & Accessories :

1.0 Sperm Meter™ (Semen Analysis Chamber)

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 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.



3.0 Sperm Vision™ (103i)

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.



4.0 Centrifuge Machine

SP/INT/006-B

H. S. Code : 901890

Make : REMI, India

Model : R8C

R8C Centrifuge Machine (CE Mark) with built in digital timer and step less knob to control the speed.
Digital display of speed and image on screen.

Specification :

- Speed : Digital display, adjustable speed with steeples knob
- Time : Set by digital key pad
- No. of tubes : 8 of 15 ml volume
- Head : Swing out



5.0 Andrology Station

SP/INT/003- A

H. S. Code : 901890

Class 100 Vertical model completely made up of mild steel (M.S.). Ultra clean air unit with HEPA filter, Prefilter, fully balanced motor blower set, Stainless steel top with side glass with proper light & U V Light arrangement and castor wheels for easy movement.



ACCESSORIES & DISPOSABLE

↳ 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	



(B) 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

(C) Media & Kits :

MEDIA

Semen Processing Reagent



Swim-up

SP/MED/007



It is used as a Medium for **Swim Up Technique**,
 It is a Modified Human Tubule Fluid composed of Inorganic Salt,
 Gultamax, Glucose, Hepes Buffer and Antibiotic

One Kit Contains :
 Sperm Swim - 10 Ampules of 5 ml






Density Gradient


SP/MED/008



It is used as a Medium for **Swim Down Technique**.
 The kit contains Density Gradient (2 layer) & Sperm Washing Media.
Density Gradient (Lower Layer - 90% & Upper Layer - 45%) :
 Colloidal suspension of silica particles stabilized with covalently bonded hydrophilic saline in a Hepes Buffered Human Tubule Fluid.
Sperm Washing Media :
 Modified Human Tubule Fluid composed of Inorganic Salt, Gultamax, Glucose, Hepes Buffer and Antibiotic.
One Kit Contains :
 Upper Layer - 10 Ampules of 1 ml, Lower Layer - 10 Ampules of 1 ml &

Kits

Sr. No.	H. S. Code	Product Code	Product Details	Pack Size
1.0	382200	SP/SFT/VS-001	 <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 Test)
3.0	382200	SP/SFT/V-003	 <p>Vitality evaluation of sperm membrane structural integrity</p>	1 Kit (100 Test)
4.0	382200	SP/SFT/H-004	 <p>HOS evaluation of sperm membrane structural & functional integrity</p>	1 Kit (100 Test)
5.0	382200	SP/SFT/MP-005	 <p>Morphology evaluation of sperm morphology by Diff-Quick Staining method</p>	1 Kit (100 Test)

Sr. No.	H. S. Code	Product Code	Product Details	Pack Size
6.0	382200	SP/SFT/F-012-A		1 Kit (100 Test)
7.0	382200	SP/MED/001	 Sperm Function Test Kit™	1 Kit (100 Test)
Kit Contains : • Viscosity, • Semen pH, • Vitality, • HOS, • Morphology, • Fructose (Qualitative Analysis)				
Utility : Used to determine Sperm Functions.				
8.0	-----	-----	Normal Saline	-----
9.0	-----	-----	Immersion oil	-----



(D) Test Perform :

1.0 Diagnostic Level :

- **Semen Analysis as per WHO Norms**
- **Sperm Function Test**
 - Viscosity
 - Semen pH
 - Vitality
 - HOS
 - Morphology
 - Qualitative estimation of Fructose

2.0 Treatment Level :

- **Semen Processing of Husband Semen**
- **AID (Donor Semen)**

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