

## Sperm Quality and Function Analysis

### Determination Kit for Sperm Acrosome Reaction (Calcium Ion Carrier Induced Fluorescence Staining Method)

Evoke sperm acrosome reaction and stain the glycoprotein on acrosome membrane.



- Lyophilized fluorescent conjugates of 0.012% FITC, further shelf life and stability
- 20 tests/kit, stable for 12 months at 2-8°C

### Sperm Hyaluronic Acid Binding Test Kit (Solid Phase Capture Method)

Evaluate the maturity of motile sperm by detecting the binding rate of sperm with hyaluronic acid.



- One-step operation, time saving
- Lyophilized SHB specimen of 5% BSA, better preservation
- 20 tests/kit, stable for 12 months at 2-8°C, 60 days at 2-8°C after opening

### Sperm Reactive Oxygen Species Staining Kit (DCFH-DA Method)

For the staining of sperm reactive oxygen species.



- A simple and cost-effective way to detect ROS in cells
- 40 tests/kit, stable for 6 months at 2-8°C

### Sperm Mitochondrial Membrane Staining Kit (JC-1)

For the staining of the mitochondrial membrane of adult male sperm to assess sperm motility.



- Less sensitive to membrane potential changes of the cell under analysis, more consistent responses to mitochondrial depolarization
- 40 tests/kit, stable for 6 months at 2-8°C

## Infection Detection

### Semen Leukocyte Staining Solution (Peroxidase Method)

Stain peroxidase positive leukocytes in semen. Help to differentiate leukocytes and other round cells.



- Chromogenic reagents of benzidine and hydrogen peroxide
- Easy identification: peroxidase positive leukocyte is stained brown
- 20 tests/kit, stable for 12 months at 2-8°C, 30 days at 2-8°C after opening

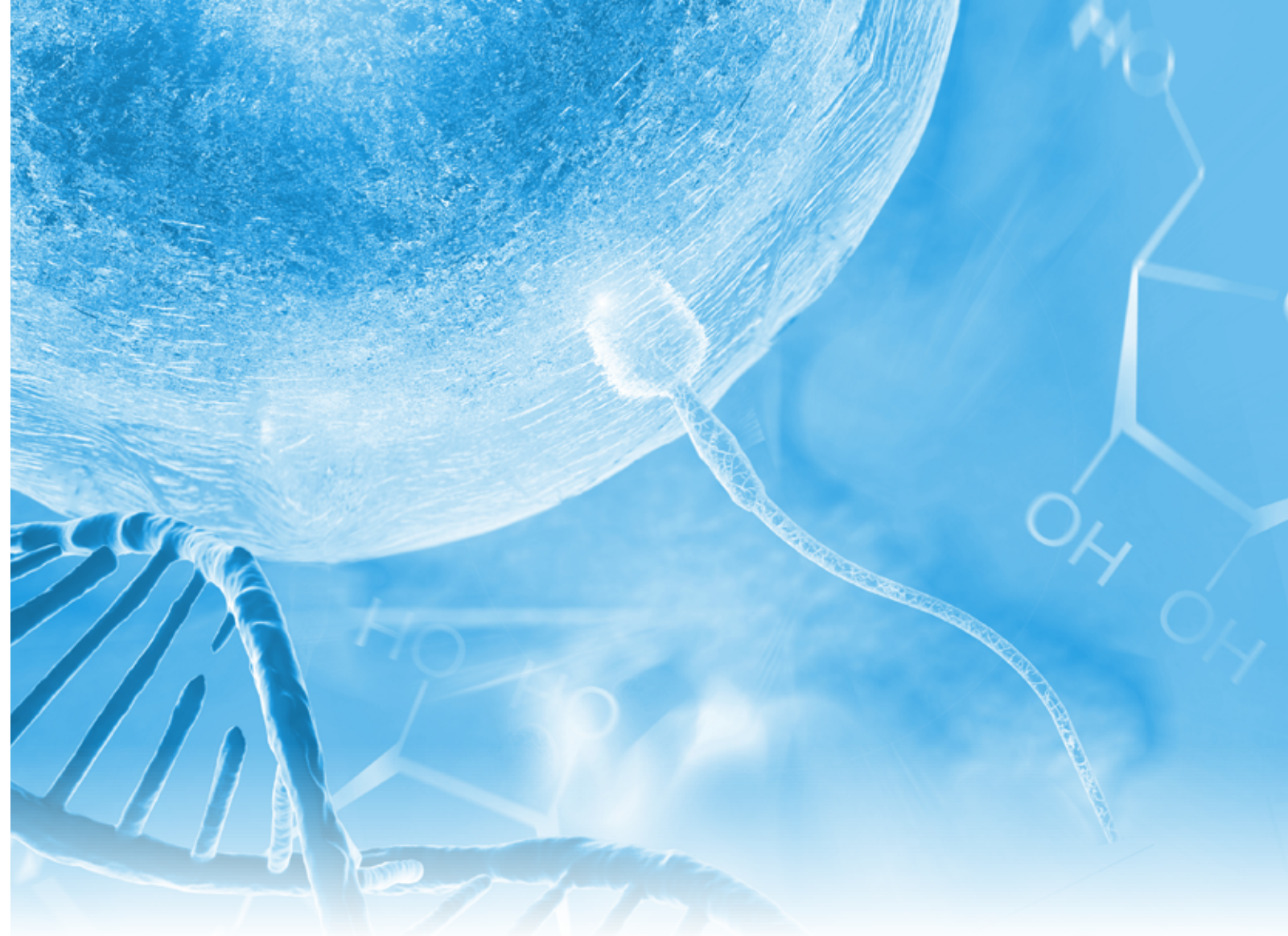
## Semen Preparation

### Kit for Semen Liquefaction (Enzyme Digestion Method)

Accelerate the liquefaction of semen samples that maintain viscous or incompletely liquefied in 30 minutes.



- WHO recommended method
- Lyophilized chymotrypsin, further shelf life and stability
- pH 7.2-7.6 after dissolving, maintain sample stability
- 2 vials/kit, stable for 12 months at 2-8°C



# Manual Reagents for Semen Analysis

Product Catalogue

Committed to becoming a global leader in reproductive medicine diagnosis and treatment

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**CARIAD**  
Andrology, Reproductive, IVF.

## Seminal Plasma Biochemical Assay

### Seminal Plasma Zinc Detection Kit (5-Br-PAPS)

For the quantitative determination of zinc in seminal plasma and for auxiliary diagnosis of prostatitis and male infertility clinically.



- Chromogenic reagents: carbonate buffer of 0.015% 5-Br-PAPS and solution of 2% thiourea and 0.4% sodium chloride
- Zinc standard of 100  $\mu$ M zinc oxide
- 20 tests/kit, stable for 12 months at 2-8°C, 15 days at 2-8°C after opening

### Seminal Plasma Citric Acid Detection Kit (Enzymatic Method)

For the determination of citric acid in seminal plasma samples and for auxiliary diagnosis of male sexual function and prostate function clinically.



- Contain 0.4 mmol/L NADH, 40 mmol/L Tris buffer and 600 mmol/L PIPES
- Lyophilized malate dehydrogenase and lactate dehydrogenase, further shelf life and stability
- Citrate standard included, facilitate calibration
- 40 tests/kit, stable for 12 months at 2-8°C away from light

### Seminal Plasma Fructose Detection Kit (Indole Method)

For the determination of fructose in seminal plasma and for auxiliary diagnosis of seminal vesicles and testicular interstitial cells.



- Chromogenic reagent of 0.025% indole
- Fructose standard of 2.24mM fructose
- 20 tests/kit, stable for 6 months at 2-8°C, 15 days at 2-8 °C after opening

### Seminal Plasma Acid Phosphatase Detection Kit (P-nitrophenol Method)

For the determination of seminal plasma acid phosphatase and for auxiliary diagnosis of prostate diseases clinically.



- 3 tablets of pNPP serve as substrate
- 4 vials of standard pNP for comparison
- 20 tests/kit, stable for 6 months at 2-8°C

## Sperm Quality and Function Analysis

### ► Vitality

#### Sperm Vitality Staining Solution (Eosin-Nigrosin Staining)

Fast detection of sperm vitality with eosin-nigrosin stain, as dead sperm will take up the eosin and be stained red.



- WHO recommended method
- Ready to use, one-step staining technique
- Easy to evaluate with black background: dead sperm's head is red, live sperm's head is white or pink after staining
- 40 tests/kit, stable for 12 months at 2-8°C, 15 days after the vial is opened and stored at 2-8°C

#### Sperm Membrane Detection Kit (Hypotonic Dilution Method)

Rapid detection of sperm membrane function and vitality based on the semi-permeability of the intact sperm membrane, reflecting fertilization ability at certain extent.



- WHO recommended method
- Ready to use, simple to operate and easy to count
- Contain 1.35% fructose and 0.74% sodium citrate
- 20 tests/kit, stable for 6 months at 2-8°C, 15 days after opening at 2-8°C, 7 days after opening at room temperature of 20-30°C and at 37°C

### ► Morphology

#### Papanicolaou Staining Kit for Spermatozoan Morphology

Stain semen samples for sperm morphology.



- WHO recommended method, excellent staining effect
- Hematoxylin, EA 50 and Orange G stains
- Distinct morphological features after staining
- 500 mL×5, stable for 12 months at room temperature, easy preservation

#### Modified Papanicolaou Staining Solution

Stain semen samples for sperm morphology with simpler and shorter operation than conventional pap staining method.



- Hematoxylin, eosin and light green stains
- Quicker staining time than conventional PAP staining: 10 minutes only
- Available in 50 mL and 500 mL
- 50 mL×3/500 mL×3, stable for 6 months at 4-30°C and is valid for 3 months after opening

#### Sperm Staining Solution (Diff-Quik Method)

For sperm morphology staining analysis.



- WHO recommended method
- Simple operation and fast result within 5 minutes, competitive when a rapid report is required
- Eosinophilic xanthene and basophilic thiazine stains
- More applicable to CASA
- Available in 100 mL and 500 mL
- 100 mL×3/500 mL×3, stable for 12 months at room temperature

### ► Nuclear Function

#### Sperm DNA Fragmentation Detection Kit (Sperm Chromatin Dispersion Method)

Evaluate sperm nuclear DNA integrity through SCD method. The existence and size of the halo around sperm nuclear determine whether the sperm nuclear DNA is fragmented.



- Contain dithiothreitol lysis solution and Wright staining solution
- Easy identification: sperm with fragmented DNA does not show a dispersion halo or the halo is minimal
- 20 tests/kit, stable for 12 months at 2-8°C

#### Sperm Nuclear Staining Solution (Acridine Orange Method)

Stain sperm nuclear and assess the presence of single-stranded DNA in damaged sperm chromatin.



- WHO recommended method
- Acridine orange stain
- Easy to evaluate: damaged sperm chromatin is red and normal chromatin is green after staining
- 20 tests/kit, stable for 12 months at 2-8°C

#### Staining Solution for the Maturity of Spermatozoan Nucleoprotein (Aniline Blue-Eosin Staining)

Evaluate sperm maturity by staining sperm nucleoprotein and assessing the occurrence of nucleoprotein transition.



- WHO recommended method
- Aniline blue and eosin Y stains
- Easy to evaluate: immature sperm head is blue and mature sperm head is red after staining
- 40 tests/kit, stable for 12 months at 2-8°C and 15 days at 2-8°C after opening