

Sil-Select Plus



Sil-Select Plus™ EN

Gradient system
for semen preparation

STERILE A

Sterilized by sterile filtration.
Document reference: FP09 I13 R01 C.2
Update: 26.02.2019

USED ABBREVIATIONS

ICSI Intracytoplasmatic Sperm Injection
IVF In Vitro Fertilization
IUU Intra Uterine Insemination

INTENDED USE AND COMPOSITION

Sil-Select Plus is a ready-to-use gradient system for semen preparation. The following gradients are available:
 - Sil-Select Plus Upper layer (45%)
 - Sil-Select Plus 80%
 - Sil-Select Plus Lower layer (90%)
 Sil-Select Plus gradients consist of sterile-coated colloidal silica (silica colloid dilution) in EPPS-buffered EBSS. Earth's balance salt solution supplemented with 0.4-2.2 g/l human serum albumin. Some product codes are supplemented with 10 mg/l gentamicin. The Sil-Select Plus system can be used in combination with IUU, IVF and ICSI.

For professional use only.

MATERIAL INCLUDED WITH THE KIT

Product code: SIP008 (8 preparation kit)
 » 8 x 5ml Sil-Select Plus LOWER LAYER
 » 8 x 5ml Sil-Select Plus UPPER LAYER
 » 8 x 5ml Sil-Select Plus Sperm Washing/Insemination medium
 Product code: SIP016 (16 preparation kit)
 » 2 x 20ml Sil-Select Plus LOWER LAYER
 » 2 x 20ml Sil-Select Plus UPPER LAYER
 » 8 x 5ml Sil-Select Plus Sperm Washing/Insemination medium
 Product code: SIP020LO
 » 1 x 20ml Sil-Select Plus LOWER LAYER
 Product code: SIP020UP
 » 1 x 20ml Sil-Select Plus UPPER LAYER
 » 1 x 50ml Sil-Select Plus LOWER LAYER
 » 1 x 50ml Sil-Select Plus UPPER LAYER
 Product code: SIP100 (2x100ml)
 » 1 x 100ml Sil-Select Plus LOWER LAYER
 » 1 x 100ml Sil-Select Plus UPPER LAYER
 Product code: SIP100_100
 » 1 x 100ml Sil-Select Plus 80%
 Product code: SIP100_P00
 » 1 x 100ml Sil-Select Plus 80%
 Product code: SIP500PRG_L0
 » 1 x 50ml Sil-Select Plus LOWER LAYER
 with phenol red and gentamicin
 Product code: SIP500PRG_UP
 » 1 x 50ml Sil-Select Plus UPPER LAYER
 with phenol red and gentamicin

Single bottles are all CE marked (Notified Body number 0344). Single bottles of Sil-Select Plus can be ordered separately.

STORAGE AND CONSERVATION

» Store products without gentamicin between 2-25°C before first use, once opened store between 2-8°C.

» Store products with gentamicin between 2-8°C (e.g. LAF bench, ISO Class 5).

» The products can be safely used up to 7 days after opening when sterile conditions are maintained and the products are stored at 2-8°C.

» Do not freeze.

» Do not use after expiry date.

» Keep away from sunlight.

» Content cannot be re-sterilized after opening.

» The products are stable after transport (max. 5 days) at elevated temperatures (< 37°C).

WARNINGS AND PRECAUTIONS

Standard measures to prevent infections resulting from the use of medical products prepared from human blood or plasma include selection of donors, screening of individual donations and plasma pools for specific markers of infection and the use of safe processing steps for the inactivation/inactivation of viruses. Despite this, medical products prepared from human blood or plasma are administered, the possibility of transmitting infectious agents cannot be totally excluded. This also applies to unknown or emerging viruses and other pathogens. There are no reports of proven viruses transmissions with albumin manufactured by European pharmaceuticals at the time of test. Not all tests are performed on the same day. A certificate of analysis and MSDS are available upon request.

CALCULATIONS OF G-FORCES

The g-force of your centrifuge can be calculated using this formula:

$$g = 1.118 \times r \times rpm^2 / rpm = \text{Square root} (g / (1.118 \times r))$$

r = radius of centrifuge in mm
rpm = rotations per minute / 1000

Example 1 r = 100 mm
rpm = 1800 rotations per minute
g = 1.118 x 100 x 3.24 = 362g

Example 2 r = 100 mm
g = 350g
rpm = RC 350 / (1.118 x 100) = 1.77
rpm = 1770 rotations per minute

TECHNICAL SUPPORT

FertiPro N.V.
Industriepark Noord 32
8730 Beernem / Belgium
Tel +32 (0)50 79 18 05
Fax +32 (0)50 79 17 99
URL: www.fertipro.com
E-mail: info@fertipro.com

PRE-USE CHECKS

» Do not use the product if seal of the container is opened or defectuous when the product is delivered.
 » Do not use the product if it has changed colour or shows any evidence of microbial contamination.
 » Mix the density gradient bottles by 5 bottle inversions before use.

INSTRUCTIONS FOR USE WITH FRESH SEMEN SAMPLES

1. Bring all components of the system and samples to room temperature or to 37°C.
 2. Transfer 1 ml of Sil-Select Plus Upper Layer into a sterile disposable centrifuge tube.
 3. Using a 3cc syringe with a 1 1/2" 21 g needle, place 2.5 ml of Sil-Select Plus Lower Layer under the Upper Layer. Take care that the two layers are distinctly separated. This is done by placing the tip of the needle on the bottom of the test tube and slowly dispensing the Sil-Select Plus Lower Layer. This two-layer gradient is stable for up to two hours.
 4. Gently place up to 2.5 ml of liquefied semen onto the Upper Layer using a transfer pipette or syringe.
 5. Centrifuge for 15 to 18 minutes at 350 g to 400 g. When this centrifugation is completed you may not be able to visibly see a pellet. If so, it is essential to continue the procedure with a second centrifugation of 3 to 5 minutes.
 6. Remove supernatant down to the pellet.
 7. Using a syringe add 2-3 ml of sperm washing medium and repeat the pelleting.
 8. Centrifuge for 8 to 10 minutes at 300 g.
 Higher sperm concentration will require the maximum 10 minutes centrifugation to ensure a complete and thorough sperm wash.
 9. Remove supernatant down to the pellet and repeat steps 7 and 8.
 10. Remove supernatant and replace with a suitable volume of appropriate medium.

Réservez à l'usage professionnel.

MATÉRIEL INCLUS DANS LA TROUSSE

Code de produit : SIP008 (trousse de 8 préparations)
 » 8 x 5ml Sil-Select Plus LOWER LAYER
 » 8 x 5ml Sil-Select Plus UPPER LAYER
 » 8 x 5ml Sil-Select Plus Sperm Washing/Insemination medium
 Product code: SIP016 (16 preparation kit)
 » 2 x 20ml Sil-Select Plus LOWER LAYER
 » 2 x 20ml Sil-Select Plus UPPER LAYER
 » 8 x 5ml Sil-Select Plus Sperm Washing/Insemination medium
 Product code: SIP020LO
 » 1 x 20ml Sil-Select Plus LOWER LAYER
 Product code: SIP020UP
 » 1 x 20ml Sil-Select Plus UPPER LAYER
 » 1 x 50ml Sil-Select Plus LOWER LAYER
 Product code: SIP100 (2x100ml)
 » 1 x 100ml Sil-Select Plus LOWER LAYER
 » 1 x 100ml Sil-Select Plus UPPER LAYER
 Product code: SIP100_100
 » 1 x 100ml Sil-Select Plus 80%
 Product code: SIP100_P00
 » 1 x 100ml Sil-Select Plus 80%
 Product code: SIP500PRG_L0
 » 1 x 50ml Sil-Select Plus LOWER LAYER
 with phenol red and gentamicin
 Product code: SIP500PRG_UP
 » 1 x 50ml Sil-Select Plus UPPER LAYER
 with phenol red and gentamicin

If samples do not liquefy and therefore do not pass through the layers, increasing the centrifugal force up to, but no more than, 500 g will help to separate the sperm.

Si les échantillons ne se liquifient pas et ne traversent donc pas les couches, pour augmenter la force centrifuge jusqu'à 500 g maximum pour faciliter la séparation du sperme.

INSTRUCTIONS D'ENTREPOSAGE DE CONSERVATION

» Store products without gentamicin between 2-25°C before first use, once opened store between 2-8°C.
 » Store products with gentamicin between 2-8°C (e.g. LAF bench, ISO Class 5).
 » The products can be safely used up to 7 days after opening when sterile conditions are maintained and the products are stored at 2-8°C.
 » Do not freeze.
 » Do not use after expiry date.
 » Keep away from sunlight.
 » Content cannot be re-sterilized after opening.
 » The products are stable after transport (max. 5 days) at elevated temperatures (< 37°C).

SPÉCIFICATIONS DU PRODUIT

pH: 7.20-7.90 (Release criteria: 7.20-7.60)
 Osmolality: 280-310 mOsm/kg (Upper Layer)
 290-330 mOsm/kg (Lower Layer)

Density: 1.050-1.150 g/ml (Lower Layer)
 1.097-1.107 g/ml (80%)

Endotoxin: < 0.5 EU/ml

Sterility: SAL 10-3

Test de survie des spermatozoïdes: > 80% de survie après 4 heures d'exposition des spermatozoïdes au milieu de test; > 75% de survie après 24 heures d'exposition des spermatozoïdes au milieu de test

Non test sur embryons de souris

Certificat d'analyse et fiches de données de sécurité disponibles sur demande

CALCUL DES FORCES G

La force G de votre centrifuge peut être calculée à l'aide de la formule suivante :

$$g = 1.118 \times r \times rpm^2 / rpm = \text{Racine carrée} (g / (1.118 \times r))$$

r = rayon de la centrifuge en mm
rpm = rotations par minute / 1000

Exemple 1 r = 100 mm
rpm = 1800 rotations par minute
g = 1.118 x 100 x 3.24 = 362g

Exemple 2 r = 100 mm
g = 350g
rpm = RC 350 / (1.118 x 100) = 1.77
rpm = 1770 rotations par minute

SUPPORT TECHNIQUE

FertiPro N.V.
Industriepark Noord 32
8730 Beernem / Belgique
Tel +32 (0)50 79 18 05
Fax +32 (0)50 79 17 99
URL: www.fertipro.com
E-mail: info@fertipro.com

VÉRIFICATIONS AVANT UTILISATION

» Ne pas utiliser le produit si le scellé du contenant est rompu ou défectueux à la livraison du produit.
 » Ne pas utiliser le produit s'il devient trouble ou s'il présente des signes de contamination microbienne.
 » Mélangez les flacons de gradient en les retournant 5 fois avant utilisation.

INSTRUCTIONS POUR L'UTILISATION AVEC DES ÉCHANTILLONS DE SPERMES FRASCHES

1. Réchauffer tous les composants du système et les échantillons à température ambiante ou à 37°C.
 2. Prélever 1 ml de Sil-Select Plus Upper Layer dans un stérile échantillon centrifuge tube.
 3. À l'aide d'une seringue 3 ml munie d'une aiguille 1 1/2" 21 g, déposer 1 ml de Sil-Select Plus Lower Layer sous la Upper Layer. Assurez-vous que les deux couches soient parfaitement séparées. Pour ce faire, placez la pointe de l'aiguille sur le fond de test et injectez progressivement la Lower Layer de la Sil-Select Plus. Ce gradient a une densité stable pendant environ deux heures.
 4. Placez délicatement jusqu'à 2.5 ml de sperme liquéfié sur la Upper Layer à l'aide d'une pipette de transfert ou d'une seringue.
 5. Centrifugez pendant 15 à 18 minutes à 350-400 g. lorsque la première centrifugation est terminée et le culot n'est pas visible, il est indispensable de procéder avec un deuxième cycle de centrifugation de 3 à 5 minutes.
 6. Retirer le supamatant et répétez la procédure.
 7. Utilisez une seringue 3 ml munie d'une aiguille 1 1/2" 21 g, déposer 1 ml de Sil-Select Plus Lower Layer sous la Upper Layer. Procédez comme pour la première centrifugation.
 8. Placez délicatement jusqu'à 2.5 ml de sperme liquéfié sur la Upper Layer à l'aide d'une pipette de transfert ou d'une seringue.
 9. Centrifugez pendant 15 à 18 minutes à 350-400 g. lorsque la première centrifugation est terminée et le culot n'est pas visible, il est indispensable de procéder avec un deuxième cycle de centrifugation de 3 à 5 minutes.
 10. Retirer le supamatant et répétez la procédure.

Nur für die professionelle Nutzung.

INSTRUMENTS INCLUS DANS LA TROUSSE

Code de produit : SIP008 (trousse de 8 préparations)
 » 8 x 2.5ml Sil-Select Plus LOWER LAYER
 » 8 x 2.5ml Sil-Select Plus UPPER LAYER
 » 8 x 5ml Sil-Select Plus Sperm Washing/Insemination medium
 Product code : SIP016 (trousse de 16 préparations)
 » 2 x 20ml Sil-Select Plus LOWER LAYER
 » 2 x 20ml Sil-Select Plus UPPER LAYER
 » 8 x 5ml Sil-Select Plus Sperm Washing/Insemination medium
 Code de produit : SIP020LO
 » 1 x 20ml Sil-Select Plus LOWER LAYER
 Product code: SIP020UP
 » 1 x 20ml Sil-Select Plus UPPER LAYER
 » 1 x 50ml Sil-Select Plus LOWER LAYER
 Product code: SIP100 (2x100ml)
 » 1 x 100ml Sil-Select Plus LOWER LAYER
 » 1 x 100ml Sil-Select Plus UPPER LAYER
 Product code: SIP100_100
 » 1 x 100ml Sil-Select Plus 80%
 Product code: SIP100_P00
 » 1 x 100ml Sil-Select Plus 80%
 Product code: SIP500PRG_L0
 » 1 x 50ml Sil-Select Plus LOWER LAYER
 with phenol red and gentamicin
 Product code: SIP500PRG_UP
 » 1 x 50ml Sil-Select Plus UPPER LAYER
 with phenol red and gentamicin

Si les échantillons ne se liquifient pas et ne traversent donc pas les couches, pour augmenter la force centrifuge jusqu'à 500 g maximum pour faciliter la séparation du sperme.

Les échantillons individuels portent la marque CE (Entité notifiée numéro 0344). Les flacons individuels de Sil-Select Plus sont toujours vendus séparément.

INSTRUCTIONS D'ENTREPOSAGE DE CONSERVATION

» Entreposer les produits sans gentamicine entre 2-25°C avant la première utilisation, après 25°C entreposés les produits peuvent être utilisés jusqu'à 30 minutes.
 » Entreposer les produits avec gentamicine entre 2-8°C.
 » Incubateur ou bain-marie à 37°C (facultatif)
 » Sil-Select Plus Sperm Washing/Insemination medium (sauf SIP008 et SIP016),
 » LAF-bench (ISO Class 5)

PRODUCT SPECIFICATIONS

pH: 7.20-7.90 (Release criteria: 7.20-7.60)
 Osmolality: 280-310 mOsm/kg (Upper Layer)
 290-330 mOsm/kg (Lower Layer)

Density: 1.050-1.150 g/ml (Lower Layer)

Endotoxin: < 0.5 EU/ml

Sterility: SAL 10-3

Test de survie des spermatozoïdes: > 80% de survie

après 4 heures d'exposition des spermatozoïdes au milieu de test; > 75% de survie après 24 heures d'exposition des spermatozoïdes au milieu de test

Non test sur embryons de souris

Certificat d'analyse et fiches de données de sécurité disponibles sur demande

SPÉCIFICATIONS DU PRODUIT

pH: 7.20-7.90 (Critère de libération: 7.20-7.60)

Osmolalität: 280-310 mOsm/kg (Upper Layer)

290-330 mOsm/kg (Lower Layer)

Dichte: 1.050-1.150 g/ml (Lower Layer)

Viskosität: < 1.07 g/ml (80%)

Endotoxin: < 0.5 EU/ml

Sil-Select Stock



Sil-Select Stock™ EN

Stock solution for semen preparation

STERILE A

Sterilized by sterile filtration.
Document reference: FP09 I13 R01 C.2
Update: 26.02.2019

USED ABBREVIATIONS

ICSI Intracytoplasmatic Sperm Injection
IVF In Vitro Fertilization
IUI Intra Uterine Insemination

INTENDED USE AND COMPOSITION

Sil-Select Stock is a ready-to-use isotonic gradient for semen preparation with a density of approximately 1.12 g/ml. Sil-Select Stock consists of siliceous colloid silica particles suspended in HEPES-buffered EBSS (Earle's balanced salt solution) and some product codes are supplemented with 10 mg/ml gentamicin. Sil-Select Stock can be used in combination with IUI, IVF and ICSI.

For professional use only.

MATERIAL INCLUDED WITH THE KIT

Product code: SIS100
» 1x 100ml Sil-Select Stock
Product code: SIS500
» 1x 500ml Sil-Select Stock
Product code: SIS100_326
» 1x 100ml Sil-Select Stock with gentamicin
Product code: SIS500G
» 1x 500ml Sil-Select Stock with gentamicin

MATERIAL NOT INCLUDED WITH THE KIT

» 3cc syringes with 1 1/2" 21 g needle
» Centrifuge (must be able to operate for up to 30 minutes at 400 g)
» Incubator or water bath at 37°C (optional)
» FertiCult Flushing Medium
» LAF bench (ISO Class 5)

PRODUCT SPECIFICATIONS

pH: 7.20-7.90 (Release criteria: 7.20-7.60)
Osmolality: 300-330 mOsm/kg
Density: 1.150 - 1.1250 g/ml
Viscosity: < 1.75 cP
Endotoxin: < 0.5 EU/ml
Sterility: SAL 10^-3
Test for surviving spermatozoa: ≥ 80% survival after 4 hours exposure
44% surviving spermatozoa in the test medium;
≥ 75% survival after 24 hours exposure to the test medium
» Not MEA tested
» A certificate of analysis and MSDS are available upon request.

CALCULATIONS OF G-FORCES

The g-force of your centrifuge can be calculated using this formula:

$$g = 1.118 \times r \times rpm^2 \text{ or rpm} = \text{Square root } (g / (1.118 \times r))$$

r = radius of centrifuge in mm
rpm = rotations per minute / 1000

Example 1 r = 100 mm
rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362g

Example 2 r = 100 mm
g = 350g
rpm = SOR (350 / (1.118 × 100)) = 1.77
rpm = 1770 rotations per minute

PRE-USE CHECKS

» Do not use the product if seal of the container is opened or defect when the product is delivered.
» Do not use the product if it has changed colour or shows any evidence of microbial contamination.
» Mix the density gradient bottles by 5 bottle inversions before use.

INSTRUCTIONS FOR PREPARATION OF GRADIENTS

We advise to prepare a dual gradient system (45% - 90% or 40% - 80%) starting from Sil-Select Stock. If preferred a multi-layer can be used as well (e.g. 45% - 70% - 90%). To prepare a 90% gradient mix 1 part FertiCult Flushing medium with 9 parts Sil-Select Stock.

A 45% gradient is prepared by mixing 5:5 parts FertiCult Flushing medium with 4.5 parts Sil-Select Stock. Alternatively any HEPES-buffered EBSS-based medium can be used for the preparation of the gradients.

Note: Gradients should be prepared and repacked under sterile conditions (e.g. LAF bench ISO Class 5). For optimal results, prepare the gradients maximum 24 hours prior to use. Mix well after diluting the Sil-Select Stock solution. Follow the instructions as indicated for Sil-Select Plus in order to use the prepared density gradient media for sperm selection.

Remarque : les gradients doivent être préparés et recombinés dans des conditions stériles (par exemple, hotte à flux luminaire, classe ISO 5). Pour obtenir des résultats optimaux, il faut préparer les gradients au maximum 24 heures avant leur utilisation. Bien mélanger après dilution de la solution mère Sil-Select Stock.

Suivez les instructions indiquées pour le Sil-Select Plus afin d'utiliser le gradient de densité pour la sélection de sperme ainsi préparé.

STORAGE AND CONSERVATION

Sil-Select Stock™ EN

Store solution for semen preparation

STERILE A

Sterilized by sterile filtration.
Document reference: FP09 I13 R01 C.2
Update: 26.02.2019

USED ABBREVIATIONS

ICSI Intracytoplasmatic Sperm Injection
IVF In Vitro Fertilization
IUI Intra Uterine Insemination

INTENDED USE AND COMPOSITION

Sil-Select Stock is a ready-to-use isotonic gradient for semen preparation with a density of approximately 1.12 g/ml. Sil-Select Stock consists of siliceous colloid silica particles suspended in HEPES-buffered EBSS (Earle's balanced salt solution) and some product codes are supplemented with 10 mg/ml gentamicin. Sil-Select Stock can be used in combination with IUI, IVF and ICSI.

For professional use only.

MATERIAL INCLUDED WITH THE KIT

Product code: SIS100
» 1x 100ml Sil-Select Stock
Product code: SIS500
» 1x 500ml Sil-Select Stock
Product code: SIS100_326
» 1x 100ml Sil-Select Stock with gentamicin
Product code: SIS500G
» 1x 500ml Sil-Select Stock with gentamicin

MATERIAL NOT INCLUDED WITH THE KIT

» 3cc syringes with 1 1/2" 21 g needle
» Centrifuge (must be able to operate for up to 30 minutes at 400 g)
» Incubator or water bath at 37°C (optional)
» FertiCult Flushing Medium
» LAF bench (ISO Class 5)

PRODUCT SPECIFICATIONS

pH: 7.20-7.90 (Release criteria: 7.20-7.60)
Osmolality: 300-330 mOsm/kg
Density: 1.150 - 1.1250 g/ml
Viscosity: < 1.75 cP
Endotoxin: < 0.5 EU/ml
Sterility: SAL 10^-3
Test for surviving spermatozoa: ≥ 80% survival after 4 hours exposure
44% surviving spermatozoa in the test medium;
≥ 75% survival after 24 hours exposure to the test medium
» Not MEA tested
» A certificate of analysis and MSDS are available upon request.

CALCULATIONS OF G-FORCES

The g-force of your centrifuge can be calculated using this formula:

$$g = 1.118 \times r \times rpm^2 \text{ or rpm} = \text{Square root } (g / (1.118 \times r))$$

r = radius of centrifuge in mm
rpm = rotations per minute / 1000

Example 1 r = 100 mm
rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362g

Example 2 r = 100 mm
g = 350g
rpm = SOR (350 / (1.118 × 100)) = 1.77
rpm = 1770 rotations per minute

PRE-USE CHECKS

» Do not use the product if seal of the container is opened or defect when the product is delivered.
» Do not use the product if it has changed colour or shows any evidence of microbial contamination.
» Mix the density gradient bottles by 5 bottle inversions before use.

INSTRUCTIONS FOR PREPARATION OF GRADIENTS

We advise to prepare a dual gradient system (45% - 90% or 40% - 80%) starting from Sil-Select Stock. If preferred a multi-layer can be used as well (e.g. 45% - 70% - 90%). To prepare a 90% gradient mix 1 part FertiCult Flushing medium with 9 parts Sil-Select Stock.

A 45% gradient is prepared by mixing 5:5 parts FertiCult Flushing medium with 4.5 parts Sil-Select Stock. Alternatively any HEPES-buffered EBSS-based medium can be used for the preparation of the gradients.

Note: Gradients should be prepared and repacked under sterile conditions (e.g. LAF bench ISO Class 5). For optimal results, prepare the gradients maximum 24 hours prior to use. Mix well after diluting the Sil-Select Stock solution. Follow the instructions as indicated for Sil-Select Plus in order to use the prepared density gradient media for sperm selection.

Remarque : les gradients doivent être préparés et recombinés dans des conditions stériles (par exemple, hotte à flux luminaire, classe ISO 5). Pour obtenir des résultats optimaux, il faut préparer les gradients au maximum 24 heures avant leur utilisation. Bien mélanger après dilution de la solution mère Sil-Select Stock.

Suivez les instructions indiquées pour le Sil-Select Plus afin d'utiliser le gradient de densité pour la sélection de sperme ainsi préparé.

INSTRUCTIONS D'ENTREPOSAGE DE CONSERVATION

Sil-Select Stock™ FR

Solution mère pour la préparation du sperme

STERILE A

Sterilized by sterile filtration.
Document reference: FP09 I13 R01 C.2
Mise à jour : 26.02.2019

USED ABBREVIATIONS

ICSI Intracytoplasmatic Sperm Injection
IVF Fécundation in vitro
IUI Intra Uterine Insemination

INTENDED USE AND COMPOSITION

Sil-Select Stock est un gradient isotonique pour la préparation de semence avec une densité d'environ 1.12 g/ml. Sil-Select Stock consiste en particules de silice colloïdale suspendues dans une solution EBSS tamponnée à l'HEPES (solution saline d'Earle, équilibrée) et certains codages de produits sont supplémentés avec 10 mg/ml gentamicine. Sil-Select Stock peut être utilisé en combinaison avec IUI, IVF et ICSI.

For professional use only.

MATERIAL INCLUDED WITH THE KIT

Product code: SIS100
» 1x 100ml Sil-Select Stock

MATERIAL NOT INCLUDED WITH THE KIT

» 3cc syringes with 1 1/2" 21 g needle
» Centrifuge (must be able to operate for up to 30 minutes at 400 g)
» Incubator or water bath at 37°C (optional)
» FertiCult Flushing Medium
» LAF bench (ISO Class 5)

PRODUCT SPECIFICATIONS

pH: 7.20-7.90 (Release criteria: 7.20-7.60)
Osmolality: 300-330 mOsm/kg
Density: 1.150 - 1.1250 g/ml
Viscosity: < 1.75 cP
Endotoxin: < 0.5 EU/ml
Sterility: SAL 10^-3
Test for surviving spermatozoa: ≥ 80% survival after 4 hours exposure
44% surviving spermatozoa in the test medium;
≥ 75% survival after 24 hours exposure to the test medium
» Not MEA tested
» A certificate of analysis and MSDS are available upon request.

CALCULATIONS OF G-FORCES

The g-force of your centrifuge can be calculated using this formula:

$$g = 1.118 \times r \times rpm^2 \text{ or rpm} = \text{Square root } (g / (1.118 \times r))$$

r = radius of centrifuge in mm
rpm = rotations per minute / 1000

Example 1 r = 100 mm
rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362g

Example 2 r = 100 mm
g = 350g
rpm = SOR (350 / (1.118 × 100)) = 1.77
rpm = 1770 rotations per minute

PRE-USE CHECKS

» Do not use the product if seal of the container is opened or defect when the product is delivered.
» Do not use the product if it has changed colour or shows any evidence of microbial contamination.
» Mix the density gradient bottles by 5 bottle inversions before use.

INSTRUCTIONS FOR PREPARATION OF GRADIENTS

We advise to prepare a dual gradient system (45% - 90% or 40% - 80%) starting from Sil-Select Stock. If preferred a multi-layer can be used as well (e.g. 45% - 70% - 90%). To prepare a 90% gradient mix 1 part FertiCult Flushing medium with 9 parts Sil-Select Stock.

A 45% gradient is prepared by mixing 5:5 parts FertiCult Flushing medium with 4.5 parts Sil-Select Stock. Alternatively any HEPES-buffered EBSS-based medium can be used for the preparation of the gradients.

Note: Gradients should be prepared and repacked under sterile conditions (e.g. LAF bench ISO Class 5). For optimal results, prepare the gradients maximum 24 hours prior to use. Mix well after diluting the Sil-Select Stock solution. Follow the instructions as indicated for Sil-Select Plus in order to use the prepared density gradient media for sperm selection.

Remarque : les gradients doivent être préparés et recombinés dans des conditions stériles (par exemple, hotte à flux luminaire, classe ISO 5). Pour obtenir des résultats optimaux, il faut préparer les gradients au maximum 24 heures avant leur utilisation. Bien mélanger après dilution de la solution mère Sil-Select Stock.

Suivez les instructions indiquées pour le Sil-Select Plus afin d'utiliser le gradient de densité pour la sélection de sperme ainsi préparé.

AUFBEWAHRUNG UND KONSERVIERUNG

Sil-Select Stock™ DE

Stammlösung für die Spermienpräparation

STERILE A

Sterilisiert mittels Sterilfiltration.
Dokumentreferenz: FP09 I13 R01 C.2
Aktualisiert am: 26.02.2019

USED ABBREVIATIONS

ICSI Intracytoplasmatic Sperm Injection
IVF Fécundation in vitro
IUI Intra Uterine Insemination

INTENDED USE AND COMPOSITION

Sil-Select Stock ist ein Gradient isotonique pour la préparation de la semence avec une densité d'environ 1.12 g/ml. Sil-Select Stock consiste en particules de silice colloïdale suspendues dans une solution EBSS tamponnée à l'HEPES (solution saline d'Earle, équilibrée) et certains codages de produits sont supplémentés avec 10 mg/ml gentamicine. Sil-Select Stock peut être utilisé en combinaison avec IUI, IVF et ICSI.

For professional use only.

MATERIAL INCLUDED WITH THE KIT

Product code: SIS100
» 1x 100ml Sil-Select Stock

MATERIAL NOT INCLUDED WITH THE KIT

» 3cc syringes with 1 1/2" 21 g needle
» Centrifuge (must be able to operate for up to 30 minutes at 400 g)
» Incubator or water bath at 37°C (optional)
» FertiCult Flushing Medium
» LAF bench (ISO Class 5)

PRODUCT SPECIFICATIONS

pH: 7.20-7.90 (Release criteria: 7.20-7.60)
Osmolality: 300-330 mOsm/kg
Density: