

APPLICATION

SpermTec® G-100 is a stock solution for semen preparation. It is an isotonic gradient for semen preparation with a density of approximately 1.12 g/ml. SpermTec® G-100 can be used for semen preparation for Intra Uterine Insemination (IUI), In Vitro Fertilization (IVF) and IntraCytoplasmatic Sperm Injection (ICSI).

For professional use only.

COMPOSITION

SpermTec® G-100 consists of silane-coated colloidal silica particles suspended in HEPES-buffered EBSS (Earle's balanced salt solution).

QUALITY CONTROL

- pH between 7.20-7.90 (Release criteria: 7.20-7.60)
- Osmolality: 300-330 mOsm/kg
- Density: 1.1150-1.1250 g/ml
- Endotoxines (USP <85%): <0.5EU/ml
- Sterility test according to the current Ph. Eur. 2.6.1/USP <71>. No growth
- Human sperm survival assay:
 - % motility compared with control after 4 hours: ≥ 80%
 - % motility compared with control after 24 hours: ≥ 75%
- Chemical composition
- Use of Ph Eur or USP grade products if applicable
- Not MEA tested
- Certificate of analysis and MSDS are available upon request

SpermTec® G-100 is sterilized by aseptic processing techniques.

PRECAUTIONS AND WARNINGS

- Aseptic technique should be used to avoid possible contamination.
- Always wear protective clothing when handling specimens.
- All human, organic material should be considered potentially infectious. Handle all specimens as if capable of transmitting HIV or hepatitis.
- Any serious incident (as defined in European Medical Devices Regulation 2017/745) that has occurred should be reported to Gynotec B.V. and, if applicable, to the competent authority of the EU Member State in which the user and/or patient is established.

PRE-USE CHECKS

- Do not use the product if the seal of the container is opened or defect when the product is delivered.
- Do not use if the product shows any evidence of microbial contamination or becomes cloudy.
- Do not use after expiry date.
- Do not freeze before use.
- Do not re-sterilize after opening.
- Keep in its original packaging until the day of use.
- Depending on the number of procedures that will be performed on one day, remove the required volume of medium under aseptic conditions in an aseptic sterile recipient. This is in order to avoid multiple openings/ warming cycles of the medium. Discard excess (unused) media.

STORAGE CONDITIONS

- Store products between 2-25 °C. Once opened: store between 2-8 °C.
- Keep away from (sun)light.
- After opening the container, do not use the device longer than 7 days. Sterile conditions must be maintained and product must be stored at 2°C - 8°C.
- Discard the devices in accordance with local regulations for disposal of medical devices.

CALCULATIONS OF G-FORCES

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

$$g = \frac{r}{1.118} \times r \times rpm^2 \quad rpm = \sqrt{r \times rpm}$$

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

Example 1 Example 2
r = 100 mm r = 100 mm
rpm = 1800 rotations per minute rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362 g g = 1.118 × 100 × 3.24 = 362 g

Voorbeeld 1 Voorbeeld 2
r = 100 mm r = 100 mm
rpm = 1800 rotations per minute rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362 g g = 1.118 × 100 × 3.24 = 362 g

For further questions regarding to the safety and performance, please contact Gynotec B.V. for customer or technical support.

De g-kraften van uw centrifuge kan berekend worden met deze formule:

$$g = \frac{r}{1.118} \times r \times rpm^2 \quad rpm = \sqrt{r \times rpm}$$

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

Example 1 Example 2
r = 100 mm r = 100 mm
rpm = 1800 rotations per minute rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362 g g = 1.118 × 100 × 3.24 = 362 g

Voorbereiding van de centrifuge voor berekening van de g-kraften en de klinische prestaties (SSCP)

The SSCP for SpermTec® G-100 describes safety and performance characteristics for the media and is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor weitere Fragen zur Sicherheit und Leistungsfähigkeit kontaktieren Sie bitte den Kundendienst oder Technischen Support von Gynotec B.V.

Pour toute autre question concernant la sécurité et les performances, prière de contacter Gynotec B.V pour un support client ou technique.

INSTRUCTIONS FOR USE

Methode
Each laboratory should establish its own validated procedures and protocols.

Instructions for preparation of gradients
Mix the density gradient bottles by 5 bottle inversions before use.

We advise to prepare a dual gradient system (45% - 90% or 40% - 80% starting from SpermTec® G-100). If preferred a multi-layer can be used as well (e.g. 45% - 70% - 90%). To prepare a 90% gradient, mix 1 part SpermTec® Wash or SpermWash® (distributed by Gynotec B.V.) with 9 parts SpermTec® G-100. A 45% gradient is prepared by mixing 5.5 parts SpermTec® Wash or SpermWash® (distributed by Gynotec B.V.) with 4.5 parts SpermTec® G-100. Alternatively any HEPES-buffered EBSS-based medium can be used for the preparation of the gradients.

COMPOSITION
SpermTec® G-100 consists of silane-coated colloidal silica particles suspended in HEPES-buffered EBSS (Earle's balanced salt solution).

QUALITY CONTROL

- pH between 7.20-7.90 (Release criteria: 7.20-7.60)
- Osmolality: 300-330 mOsm/kg
- Density: 1.1150-1.1250 g/ml
- Endotoxines (USP <85%): <0.5EU/ml
- Sterility test according to the current Ph. Eur. 2.6.1/USP <71>. No growth
- Human sperm survival assay:
 - % motility compared with control after 4 hours: ≥ 80%
 - % motility compared with control after 24 hours: ≥ 75%
- Chemical composition
- Use of Ph Eur or USP grade products if applicable
- Not MEA tested
- Certificate of analysis and MSDS are available upon request

SpermTec® G-100 is sterilized by aseptic processing techniques.

PRECAUTIONS AND WARNINGS

- Aseptic technique should be used to avoid possible contamination.
- Always wear protective clothing when handling specimens.
- All human, organic material should be considered potentially infectious. Handle all specimens as if capable of transmitting HIV or hepatitis.
- Any serious incident (as defined in European Medical Devices Regulation 2017/745) that has occurred should be reported to Gynotec B.V. and, if applicable, to the competent authority of the EU Member State in which the user and/or patient is established.

PRE-USE CHECKS

- Do not use the product if the seal of the container is opened or defect when the product is delivered.
- Do not use if the product shows any evidence of microbial contamination or becomes cloudy.
- Do not use after expiry date.
- Do not freeze before use.
- Do not re-sterilize after opening.
- Keep in its original packaging until the day of use.
- Depending on the number of procedures that will be performed on one day, remove the required volume of medium under aseptic conditions in an aseptic sterile recipient. This is in order to avoid multiple openings/ warming cycles of the medium. Discard excess (unused) media.

STORAGE CONDITIONS

- Store products between 2-25 °C. Once opened: store between 2-8 °C.
- Keep away from (sun)light.
- After opening the container, do not use the device longer than 7 days. Sterile conditions must be maintained and product must be stored at 2°C - 8°C.
- Discard the devices in accordance with local regulations for disposal of medical devices.

CALCULATIONS OF G-FORCES

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

$$g = \frac{r}{1.118} \times r \times rpm^2 \quad rpm = \sqrt{r \times rpm}$$

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

Example 1 Example 2
r = 100 mm r = 100 mm
rpm = 1800 rotations per minute rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362 g g = 1.118 × 100 × 3.24 = 362 g

Voorbeeld 1 Voorbeeld 2
r = 100 mm r = 100 mm
rpm = 1800 rotations per minute rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362 g g = 1.118 × 100 × 3.24 = 362 g

For further questions regarding to the safety and performance, please contact Gynotec B.V. for customer or technical support.

De g-kraften van uw centrifuge kan berekend worden met deze formule:

$$g = \frac{r}{1.118} \times r \times rpm^2 \quad rpm = \sqrt{r \times rpm}$$

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

Example 1 Example 2
r = 100 mm r = 100 mm
rpm = 1800 rotations per minute rpm = 1800 rotations per minute
g = 1.118 × 100 × 3.24 = 362 g g = 1.118 × 100 × 3.24 = 362 g

Voorbereiding van de centrifuge voor berekening van de g-kraften en de klinische prestaties (SSCP)

The SSCP for SpermTec® G-100 describes safety and performance characteristics for the media and is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor weitere Fragen zur Sicherheit und Leistungsfähigkeit kontaktieren Sie bitte den Kundendienst oder Technischen Support von Gynotec B.V.

Pour toute autre question concernant la sécurité et les performances, prière de contacter Gynotec B.V pour un support client ou technique.

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor weitere Fragen zur Sicherheit und Leistungsfähigkeit kontaktieren Sie bitte den Kundendienst oder Technischen Support von Gynotec B.V.

Pour toute autre question concernant la sécurité et les performances, prière de contacter Gynotec B.V pour un support client ou technique.

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

De SSCP voor SpermTec® G-100 beschrijft de veiligheids- en prestatiekenmerken van de media en is beschikbaar op de website van Gynotec B.V. (www.gynotec.nl).

Voor verdere vragen over veiligheid en prestatie kunt u contact opnemen met Gynotec B.V. voor klantondersteuning of technische ondersteuning

SAMENVATTING VAN VEILIGHEID EN KLINISCHE PERFORMANTIE (SSCP)

APPLICAZIONE
SpermTec® G-100 è una soluzione madre per la preparazione del liquido seminale. È un gradiente isotonicico per la preparazione del liquido seminale con una densità pari a circa 1.12g/ml. SpermTec® G-100 può essere utilizzato in combinazione con Inseminazione intrauterina (IUI). Fecondazione in vitro (IVF) e Iniezione intracitoplasmatica di espermatozoi (ICSI).

ISTRUZIONI PER L'USO
Metodi
Ciascun laboratorio deve consultare le proprie procedure comprovate.

Istruzioni per la preparazione dei gradienti

Mescolare i flaconi di gradiente di densità capovolgendo il vello prima dell'uso.

Per uso esclusivamente professionale.

COMPOSIZIONE

SpermTec® G-100 è composto da particelle di silice colloidale rivestite di silano sospese in soluzione salina bilanciata di Earle tamponata con HEPES.

CONTROLLO DI QUALITÀ

- pH compreso tra 7.0 e 7.90 (criteri di rilascio: 7.70-7.60)
- Osmolalità: 300-330 mOsm/kg
- Densità: 1.1150-1.1250 g/ml
- Endotoxina (USP <85>): < 0.5EU/ml
- Test di sterilità secondo l'attuale Farm. Eur. 2.6.1/USP <1>: assenza di crescita
- Saggio di sopravvivenza dello sperma umano:
 - % di motilità rispetto al controllo dopo 4 ore: ≥ 80%
 - % di motilità rispetto al controllo dopo 24 ore: ≥ 75%
- Composizione chimica
- Non testato MEA
- Usa di prodotti di grado Farm. Eur. o USP, ove applicabile
- Un certificato di analisi e la MSDS sono disponibili su richiesta

SpermTec® G-100 è sterilizzato mediante tecniche di lavorazione aseptica.

PRECAUZIONI E AVVERTENZE

- Per evitare possibili contaminazioni deve essere utilizzata una tecnica aseptica.
- Indossare sempre indumenti protettivi quando si maneggiano i campioni.
- Tutto l'attrezzamento e organico deve essere considerato potenzialmente infetto. Trattare tutti i campioni come se fossero in grado di trasmettere l'HIV o l'epatite C.
- Nel caso si verifichino un incidente grave (ai sensi del regolamento europeo 2017/745 relativo ai dispositivi medici), occorre segnalarlo a Gynotec B.V., e se del caso, all'autorità competente dello Stato membro dell'UE in cui si trova l'utente e/o il paziente.

CONTROLLI PRE-USO

- Non utilizzare il prodotto se, alla consegna, il sigillo del contenitore è aperto o difettoso.
- Non utilizzare se il prodotto mostra segni di contaminazione microbica o dura bitorba.
- Non utilizzare dopo la data di scadenza.
- Non congelare prima dell'uso.
- Non risterilizzare dopo l'apertura.
- Conservare nella sua confezione originale fino al momento di utilizzo.
- A seconda del numero di procedure che verranno eseguite in un giorno, estrarre il volume di terreno necessario in condizioni aseptiche in un recipiente sterile appropriato, al fine di evitare molteplici aperture/cicli di riscaldamento del terreno. Gettare via il terreno in eccesso (non utilizzato).

ISTRUZIONI PER LA CONSERVAZIONE

• Conservare i prodotti tra 2 e 25 °C. Una volta aperto, conservare tra 2 e 8 °C.

• Tenere lontano dalla luce (solare).

• Non utilizzare il prodotto oltre i 7 giorni dall'apertura del contenitore. Le condizioni sterili devono essere mantenute e il prodotto deve essere conservato a una temperatura tra 2 e 8 °C.

• Gettare i dispositivi in conformità alla normativa vigente per lo smaltimento dei dispositivi medici.

CALCOLI DELLE FORZE DI ACCELERAZIONE

La forza di gravità della centrifuga può essere calcolata mediante la seguente formula:

$$g = \frac{r}{R}$$

g = 1.118 x r / rpm²

radice quadrata (g / 1.118 x r)

r = raggio della centrifuga in mm

rpm = rotazioni al minuto / 1000

Esempio 1

r = 100 mm

rpm = 1800 rotazioni al minuto

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

g = 1.118 x 100 x 3.24 = 362 g

<