

ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Arti-Cell Forte suspension for injection for horses

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each 2 ml dose - contains:

Active substance (1 ml):

Chondrogenic induced equine allogeneic peripheral blood-derived mesenchymal stem cells (1 ml)
1.4–2.5×10⁶

Excipients (1ml):

Equine allogeneic plasma (EAP) 1 ml

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Suspension for injection.

Chondrogenic induced equine allogeneic peripheral blood-derived mesenchymal stem cell suspension:
clear colourless suspension.

Equine allogeneic plasma suspension (diluent): clear yellow suspension.

4. CLINICAL PARTICULARS

4.1 Target species

Horses

4.2 Indications for use, specifying the target species

Reduction of mild to moderate recurrent lameness associated with non-septic joint inflammation in horses.

4.3 Contraindications

Do not use in cases of hypersensitivity to the active substance or to any of the excipients.

4.4 Special warnings for each target species

The product has been demonstrated to be efficacious in horses showing mild to moderate lameness in the fetlock joint. Efficacy data are not available regarding treatment of other joints.

The efficacy of the product was demonstrated in a pivotal field trial after single administration of the product and concurrent single systemic administration of an NSAID. According to the benefit-risk assessment of the responsible veterinarian of the individual case a single dose systemic NSAID may be administered on the day of intraarticular injection.

4.5 Special precautions for use

Special precautions for use in animals

In order to avoid thrombosis in small vessels when administering intraarticular injections the correct

placement of the needle is critical.

Special precautions to be taken by the person administering the veterinary medicinal product to animals

Liquid nitrogen containers should be handled by properly trained personnel only. The handling of liquid nitrogen should take place in a well-ventilated area. Before withdrawing the vials from the liquid nitrogen canister, protective equipment consisting of gloves, long sleeves and a facemask or goggles should be worn.

In case of accidental self-injection this product can cause pain, local inflammatory reactions and swelling at the site of injection which may persist for several weeks and possibly cause fever, seek medical advice immediately and show the package leaflet or the label to the physician.

4.6 Adverse reactions (frequency and seriousness)

Mild increases in lameness and injection site reactions, such as mild to moderate increases in joint swelling and mild increases in temperature at the injection sites, occurred very commonly in the first week after use of the product. In the pivotal clinical field study a single systemic administration of an NSAID was given concurrently to treatment with Arti-Cell Forte.

The frequency of adverse reactions is defined using the following convention:

- very common (more than 1 in 10 animals treated displaying adverse reaction(s))
- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)
- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports).

4.7 Use during pregnancy, lactation or lay

The safety of the veterinary medicinal product has not been established during pregnancy and lactation.

Use only accordingly to the benefit-risk assessment by the responsible veterinarian.

4.8 Interaction with other medicinal products and other forms of interaction

No data available.

Do not administer simultaneously with any other intraarticular veterinary medicinal product.

4.9 Amounts to be administered and administration route

Route of administration:

Intraarticular use.

Dosage:

A single intraarticular injection of 1 dose (2 ml) per animal.

Preparation of the suspension for injection:

The veterinary product must be administered intraarticularly by a veterinary surgeon taking special precautions to ensure sterility of the injection process. The product must be manipulated and injected using sterile techniques and in a clean environment.

The product needs to be administered immediately after thawing to prevent significant cell death.

Using appropriate gloves, remove the two vials (one vial of cells (1 ml) and one vial of EAP (1ml)) from the freezer/liquid nitrogen and thaw immediately at 25 °C – 37 °C, e.g. in a water bath, until the

contents in each are completely thawed (approximately 5 minutes).

If any cell clusters are visible in either of the vials after thawing, gently shake the vial concerned until the suspension is clear and colourless (stem cell suspension) or clear and yellow (equine allogeneic plasma suspension: the diluent).

Remove the cap of the vial that thawed first and aspirate the suspension in a syringe, then remove the cap of the other (thawed) vial and aspirate the suspension in the same syringe. Then mix both the suspensions in the same syringe to produce one dose of the product (2 ml).

Use a needle with a diameter greater than or equal to 22G in order to prevent cell damage.

4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary

No data available.

4.11 Withdrawal period(s)

Zero days.

5. PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Other drugs for disorders of the musculo-skeletal system
ATCvet code: QM09AX90

5.1 Pharmacodynamic properties

This product contains chondrogenic induced equine mesenchymal stem cells and equine allogeneic plasma (EAP). The addition of the EAP to the stem cells after thawing and just before injection of the product increases the viability of the stem cells.

The chondrogenic induction of the mesenchymal stem cells aims to activate chondroprotective mechanisms, such as the production of extracellular matrix. In an experimental model of osteoarthritis in horses these effects were reflected through parameters related to cartilage turnover.

5.2 Pharmacokinetic particulars

After injection of the product the stem cells do not migrate or distribute from the treated joint and synovia to tissues surrounding the synovial space.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Active substance (stem cells) vial:

Dimethyl sulfoxide

Dulbecco's Modified Eagle Medium Low Glucose

Diluent (EAP) vial:

Equine allogeneic plasma

6.2 Major incompatibilities

In the absence of compatibility studies, this veterinary medicinal product must not be mixed with

other veterinary medicinal products.

6.3 Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 2 years.

Shelf life after reconstitution according to directions: Use immediately.

6.4 Special precautions for storage

Store and transport frozen (-90 °C to -70 °C) or in liquid nitrogen.

6.5 Nature and composition of immediate packaging

Chondrogenic induced mesenchymal stem cell suspension:

Cyclo-olefin co-polymer (COC) vial with a thermoplastic elastomer (TPE) stopper and a high-density polyethylene (HDPE) cap.

Equine allogeneic plasma suspension:

Cyclo-olefin co-polymer (COC) vial with a thermoplastic elastomer (TPE) stopper and a high-density polyethylene (HDPE) cap.

Each pack (polycarbonate container) contains a single dose of the product: one vial of stem cell suspension and one vial of EAP suspension.

6.6 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Global Stem cell Technology (GST) NV
Noorwegenstraat 4
9940 Evergem
BELGIUM

8. MARKETING AUTHORISATION NUMBER(S)

EU/2/18/228/001

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 29/03/2019

10. DATE OF REVISION OF THE TEXT

Detailed information on this veterinary medicinal product is available on the website of the European Medicines Agency (<http://www.ema.europa.eu/>).

PROHIBITION OF SALE, SUPPLY AND/OR USE

Not applicable.

ANNEX II

- A. MANUFACTURER OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURER RESPONSIBLE FOR BATCH RELEASE**
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**
- C. STATEMENT OF THE MRLs**

**A. MANUFACTURER OF THE BIOLOGICAL ACTIVE SUBSTANCE AND
MANUFACTURER RESPONSIBLE FOR BATCH RELEASE**

Name and address of the manufacturer of the biological active substance

Global Stem cell Technology (GST) NV
Noorwegenstraat 4
9940 Evergem
BELGIUM

Name and address of the manufacturer(s) responsible for batch release

Global Stem cell Technology (GST) NV
Noorwegenstraat 4
9940 Evergem
BELGIUM

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Veterinary medicinal product subject to prescription.

C. STATEMENT OF THE MRLs

The active substance being a principle of biological origin intended to produce passive immunity is not within the scope of Regulation (EC) No 470/2009.

The excipients listed in section 6.1 of the SPC are either allowed substances for which table 1 of the annex to Commission Regulation (EU) No 37/2010 indicates that no MRLs are required or are considered as not falling within the scope of Regulation (EC) No 470/2009 when used as in this veterinary medicinal product.

ANNEX III
LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGE

Polycarbonate container

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Arti-Cell Forte suspension for injection for horses

2. STATEMENT OF ACTIVE SUBSTANCES

1.4–2.5×10⁶ chondrogenic induced equine allogeneic peripheral blood-derived mesenchymal stem cells

3. PHARMACEUTICAL FORM

Suspension for injection

4. PACKAGE SIZE

One vial (1 ml) of stem cells and one vial (1 ml) of equine allogeneic plasma.

5. TARGET SPECIES

Horses

6. INDICATION(S)

7. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Intraarticular use.

8. WITHDRAWAL PERIOD(S)

Withdrawal period(s): Zero days.

9. SPECIAL WARNING(S), IF NECESSARY

Read the package leaflet before use.

10. EXPIRY DATE

EXP {month/year}

Once reconstituted use immediately.

11. SPECIAL STORAGE CONDITIONS

Store and transport frozen (-90 °C to -70 °C or in liquid nitrogen).

12. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCTS OR WASTE MATERIALS, IF ANY

Dispose of waste material in accordance with local requirements.

13. THE WORDS “FOR ANIMAL TREATMENT ONLY” AND CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE, IF APPLICABLE

For animal treatment only. To be supplied only on veterinary prescription.

14. THE WORDS “KEEP OUT OF THE SIGHT AND REACH OF CHILDREN”

Keep out of the sight and reach of children.

15. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Global Stem cell Technology (GST) NV
Noorwegenstraat 4
9940 Evergem
BELGIUM

16. MARKETING AUTHORISATION NUMBER(S)

EU/2/18/228/001

17. MANUFACTURER’S BATCH NUMBER

Lot {number}

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

Vial containing the stem cell suspension

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Arti-Cell Forte
Suspension for injection



2. QUANTITY OF THE ACTIVE SUBSTANCE(S)

1.4–2.5×10⁶ cells

3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES

1 ml

4. ROUTE(S) OF ADMINISTRATION

Intraarticular use

5. WITHDRAWAL PERIOD(S)

Withdrawal period: zero days

6. BATCH NUMBER

Lot {number}

7. EXPIRY DATE

EXP {month/year}
Once reconstituted use immediately.

8. THE WORDS “FOR ANIMAL TREATMENT ONLY”

For animal treatment only.

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

Vial containing the equine allogeneic plasma suspension

1. NAME OF THE VETERINARY MEDICINAL PRODUCT

Diluent for Arti-Cell Forte



2. QUANTITY OF THE ACTIVE SUBSTANCE(S)

3. CONTENTS BY WEIGHT, BY VOLUME OR BY NUMBER OF DOSES

1 ml

4. ROUTE(S) OF ADMINISTRATION

Intraarticular use

5. WITHDRAWAL PERIOD(S)

Withdrawal period: zero days

6. BATCH NUMBER

Lot {number}

7. EXPIRY DATE

EXP {month/year}

Once reconstituted use immediately.

8. THE WORDS “FOR ANIMAL TREATMENT ONLY”

For animal treatment only.

B. PACKAGE LEAFLET

PACKAGE LEAFLET:
Arti-Cell Forte suspension for injection for horses

1. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER AND OF THE MANUFACTURING AUTHORISATION HOLDER RESPONSIBLE FOR BATCH RELEASE, IF DIFFERENT

Marketing authorisation holder and manufacturer responsible for batch release:

Global Stem cell Technology (GST) NV
Noorwegenstraat 4
9940 Evergem
BELGIUM

2. NAME OF THE VETERINARY MEDICINAL PRODUCT

Arti-Cell Forte suspension for injection for horses
Chondrogenic induced equine allogeneic peripheral blood-derived mesenchymal stem cells

3. STATEMENT OF THE ACTIVE SUBSTANCE(S) AND OTHER INGREDIENT(S)

Each dose (2 ml) contains:

Active substance (1 ml):

1.4–2.5×10⁶ Chondrogenic induced equine allogeneic peripheral blood-derived mesenchymal stem cells (1 ml)
Colourless and clear suspension.

Excipients (1 ml):

Equine allogeneic plasma (1 ml)
Yellow and clear suspension.

4. INDICATION(S)

Reduction of mild to moderate recurrent lameness associated with non-septic joint inflammation in horses.

5. CONTRAINDICATIONS

Do not use in cases of hypersensitivity to the active substance or any of the excipients.

6. ADVERSE REACTIONS

Mild increases in lameness and injection site reactions, such as mild to moderate increases in joint swelling and mild increases in temperature at the injection sites, occurred very commonly in the first week after use of the product. In the pivotal clinical field study a single systemic administration of an NSAID was given concurrently to treatment.

The frequency of adverse reactions is defined using the following convention:

- very common (more than 1 in 10 animals treated displaying adverse reaction(s))
- common (more than 1 but less than 10 animals in 100 animals treated)
- uncommon (more than 1 but less than 10 animals in 1,000 animals treated)

- rare (more than 1 but less than 10 animals in 10,000 animals treated)
- very rare (less than 1 animal in 10,000 animals treated, including isolated reports).

If you notice any side effects, even those not already listed in this package leaflet or you think that the medicine has not worked, please inform your veterinary surgeon.

7. TARGET SPECIES

Horses

8. DOSAGE FOR EACH SPECIES, ROUTE(S) AND METHOD OF ADMINISTRATION

For intraarticular use.

Dosage:

Single administration of 1 dose (equivalent to 2 ml) per animal

9. ADVICE ON CORRECT ADMINISTRATION

Preparation of the suspension for injection:

The veterinary product must be administered intraarticularly by a veterinary surgeon taking special precautions to ensure sterility of the injection process. The product must be manipulated and injected using sterile techniques and in a clean environment.

The product needs to be administered immediately after thawing to prevent significant cell death.

Using appropriate gloves, remove the two vials (one vial of cells (1 ml) and one vial of EAP (1ml)) from the freezer/liquid nitrogen and thaw immediately at 25 °C – 37 °C, e.g. in a water bath, until the contents in each are completely thawed (approximately 5 minutes).

If any cell clusters are visible in either of the vials after thawing, gently shake the vial concerned until the suspension is clear and colourless (stem cell suspension) or clear and yellow (equine allogeneic plasma suspension: the diluent).

Remove the cap of the vial that thawed first and aspirate the suspension in a syringe, then remove the cap of the other (thawed) vial and aspirate the suspension in the same syringe. Then mix both the suspensions in the same syringe to produce one dose of the product (2 ml).

Use a needle with a diameter greater than or equal to 22G in order to prevent cell damage.

10. WITHDRAWAL PERIOD(S)

Zero days.

11. SPECIAL STORAGE PRECAUTIONS

Keep out of the sight and reach of children.

Store and transport frozen (-90 ° to -70 °C) or in liquid nitrogen.

Do not use this veterinary medicinal product after the expiry date which is stated on the labels. The expiry date refers to the last day of that month.

Shelf life after preparation of the suspension for injection according to directions: use immediately

12. SPECIAL WARNING(S)

Special warnings for each target species:

The product has been demonstrated to be efficacious in horses showing mild to moderate lameness in the fetlock joint. Efficacy data are not available regarding treatment of other joints.

The efficacy of the product was demonstrated in a pivotal field trial after single administration of the product and concurrent single systemic administration of an NSAID. According to the benefit-risk assessment of the responsible veterinarian of the individual case a single dose systemic NSAID may be administered on the day of intraarticular injection.

Special precautions for use in animals

In order to avoid thrombosis in small vessels when administering intraarticular injections the correct placement of the needle is critical.

Special precautions to be taken by the person administering the veterinary medicinal product to animals

Liquid nitrogen containers should be handled by properly trained personnel only. The handling of liquid nitrogen should take place in a well-ventilated area. Before withdrawing the vials from the liquid nitrogen canister, protective equipment consisting of gloves, long sleeves and a facemask or goggles should be worn.

In case of accidental self-injection this product can cause pain, local inflammatory reactions and swelling at the site of injection which may persist for several weeks and possibly cause fever, seek medical advice immediately and show the package leaflet or the label to the physician.

Pregnancy and lactation:

The safety of the veterinary medicinal product has not been established during pregnancy and lactation.

Use only accordingly to the benefit-risk assessment by the responsible veterinarian.

Interaction with other medicinal products and other forms of interaction:

No data available.

Do not administer simultaneously with any other intraarticular veterinary medicinal product.

Overdose:

No data available

Major incompatibilities:

In the absence of incompatibility studies, this veterinary product must not be mixed with other veterinary medicinal products

13. SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS, IF ANY

Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

14. DATE ON WHICH THE PACKAGE LEAFLET WAS LAST APPROVED

Detailed information on this veterinary medicinal product is available on the website of the European

Medicines Agency (<http://www.ema.europa.eu/>).

15. OTHER INFORMATION

For any further information about this veterinary medicinal product, please contact the local representative of the marketing authorisation holder.

België/Belgique/Belgien

Boehringer Ingelheim Animal Health Belgium SA
Avenue Arnaud Fraiteurlaan 15-23
1050 Bruxelles

Lietuva

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Viena
AUSTRIJA

Република България

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Виена
АВСТРИЯ

Luxembourg/Luxemburg

Boehringer Ingelheim Animal Health Belgium SA
Avenue Ariane/Arianelaan 16
1200 Bruxelles
BELGIQUE

Česká republika

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Vídeň
RAKOUSKO

Magyarország

Boehringer Ingelheim RCV GmbH & Co KG
Magyarországi Fióktelepe
Lechner Ödön fasor 10.
1095 Budapest

Danmark

Boehringer Ingelheim Animal Health Nordics A/S
Strødamvej 52
2100 København Ø

Malta

Boehringer Ingelheim Vetmedica GmbH
Binger Str. 173
55216 Ingelheim/Rhein
IL-ĠERMANJA

Deutschland

Boehringer Ingelheim Vetmedica GmbH
Binger Str. 173
55216 Ingelheim/Rhein

Nederland

Boehringer Ingelheim Animal Health
Netherlands B.V.
Comeniusstraat 6
1817 MS Alkmaar

Eesti

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Viin
AUSTRIA

Norge

Boehringer Ingelheim Animal Health Nordics A/S
Strødamvej 52
2100 København Ø
DANMARK

Ελλάδα

Boehringer Ingelheim Vetmedica GmbH
Binger Str. 173
55216 Ingelheim/Rhein
ΓΕΡΜΑΝΙΑ

Österreich

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Wien

España

Boehringer Ingelheim Animal Health España,
S.A.U.
Prat de la Riba, 50
08174 Sant Cugat del Vallès, Barcelona

France

Boehringer Ingelheim Animal Health France SCS
29, avenue Tony Garnier
69007 Lyon

Hrvatska

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Beč
AUSTRIJA

Ireland

Boehringer Ingelheim Vetmedica GmbH
Binger Str. 173
55216 Ingelheim/Rhein
GERMANY

Ísland

Boehringer Ingelheim Animal Health Nordics A/S
Strødamvej 52
2100 København Ø
DENMARK

Italia

Boehringer Ingelheim Animal Health Italia S.p.A.
Via Lorenzini 8
20139 Milano

Κύπρος

Boehringer Ingelheim Vetmedica GmbH
Binger Str. 173
55216 Ingelheim/Rhein
ΓΕΡΜΑΝΙΑ

Latvija

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Vīne
AUSTRIJA

Polska

Boehringer Ingelheim Sp.z o.o.
ul.Franciszka Klimczaka 1,
02-797 Warszawa

Portugal

Boehringer Ingelheim Animal Health Portugal
Unipessoal, Ld.
Avenida de Pádua, 11
1800-294 Lisboa

România

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Viena
AUSTRIA

Slovenija

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Dunaj
AVSTRIJA

Slovenská republika

Boehringer Ingelheim RCV GmbH & Co KG
Animal Health
Dr. Boehringer-Gasse 5-11
1121 Viedeň
RAKÚSKO

Suomi/Finland

Boehringer Ingelheim Animal Health Nordics A/S
Strødamvej 52
2100 København Ø
TANSKA

Sverige

Boehringer Ingelheim Animal Health Nordics A/S
Strødamvej 52
2100 København Ø
DANMARK

United Kingdom

Boehringer Ingelheim Animal Health UK Ltd.
Bracknell,
Berkshire, RG12 8YS