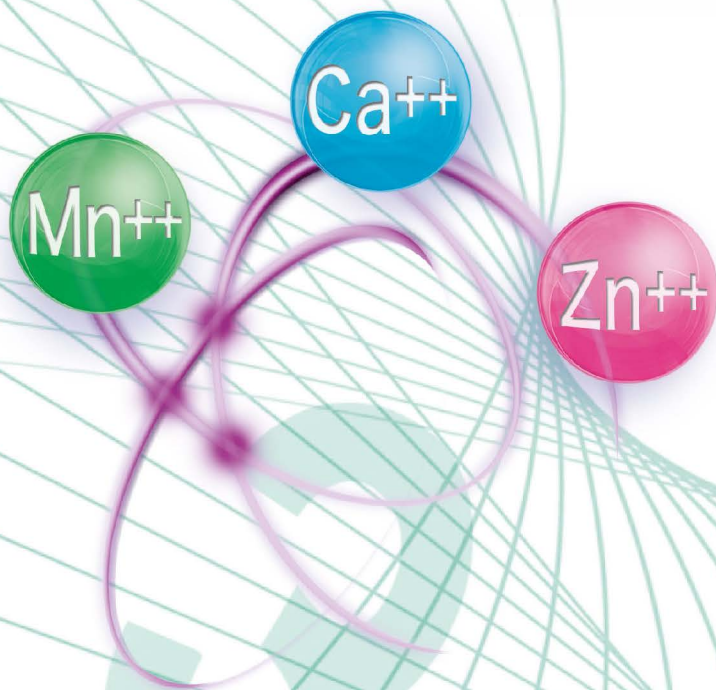


TRIONIC[®]

BIO-ACTIVE MATRIX
ENRICHED WITH **3** IONS:
MANGANESE, **CALCIUM** AND **ZINC**
CE MARKED IN CLASS III



TRIONIC[®] - the power of 3 for haemostasis and healing

USER GUIDE

INDICATIONS

Healing

Moderate to heavily exuding wounds

- Pressure ulcers
- Leg ulcers
- Diabetic foot ulcers
- Post operative wound dehiscence
- Amputation stumps
- Abscesses
- Burns

Haemostasis

TRIONIC 3.0 is efficient in patients with bleeding disorders whether congenital or acquired

- Haemorrhagic wounds
- Puncture sites
- Blood oozing
- Donor sites

MECHANISM OF ACTION

Upon contact with the wound, TRIONIC 3.0 absorbs exudate and traps necrotic debris and bacteria^{1,2,3} in its interfibrillar matrix, thus promoting wound cleansing and granulation^{4,5,9}.

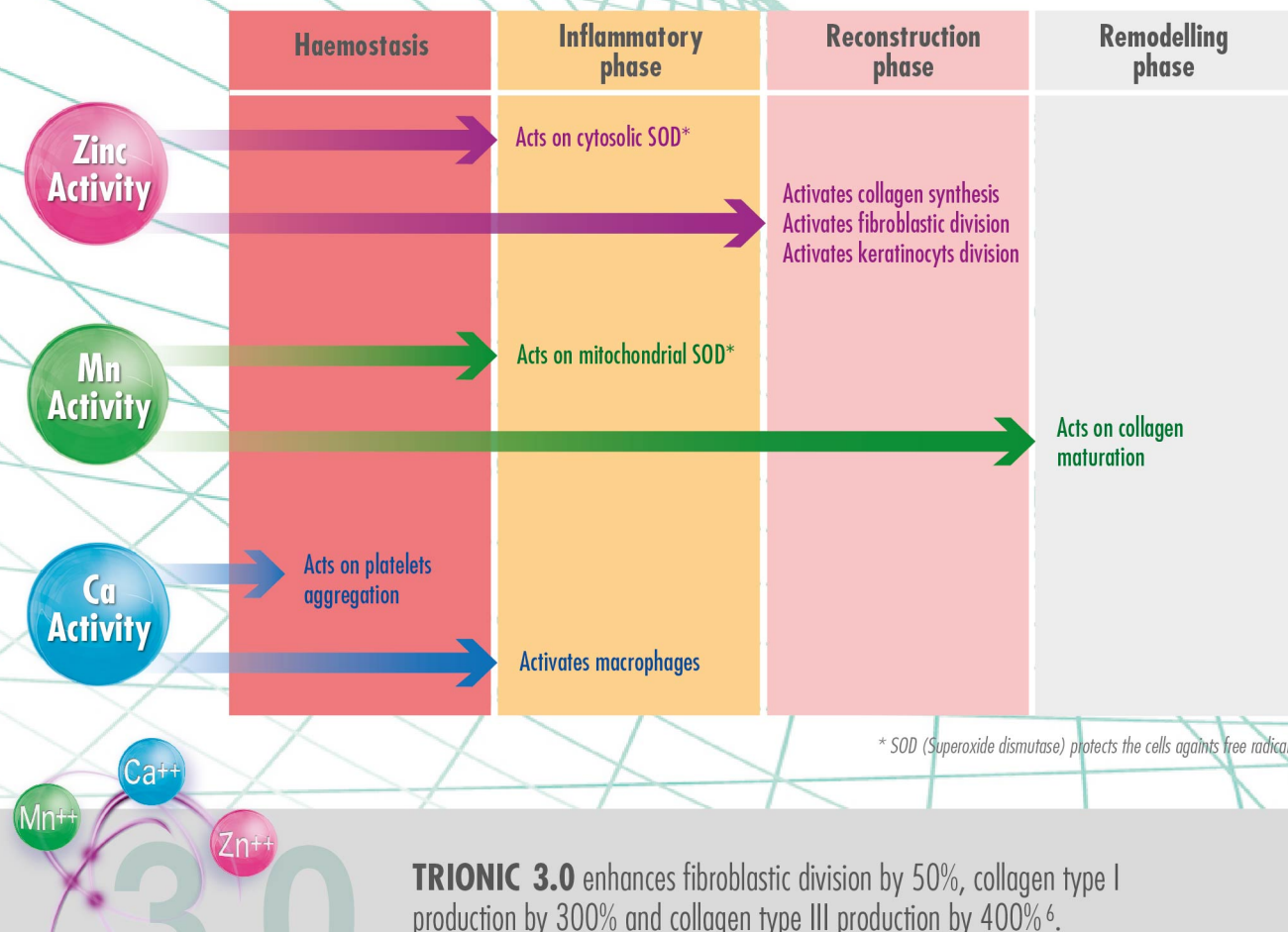
At the same time, TRIONIC 3.0 frees its zinc, calcium and manganese ions into the wound bed. The 3 ions stimulate key cells of the healing process and fasten tissue regeneration^{4,5,6,7,8,9}.

Finally, upon contact with wound fluids TRIONIC 3.0 gellifies and maintains a moist environment required for proper wound healing. TRIONIC 3.0 is designed to minimize pain^{2,3,9} and facilitate an easy removal, without damaging the newly formed tissue.

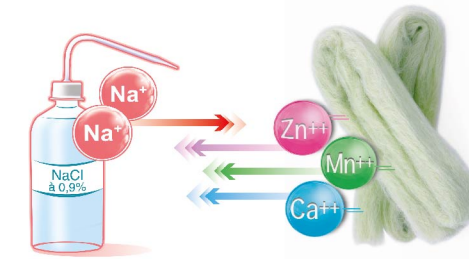
Upon contact with the wound, TRIONIC 3.0 absorbs sodium ions from the blood and frees its zinc, calcium and manganese ions into the wound bed. This process is called IONIC EXCHANGE.

The 3 ions released into the wound stimulate platelets activation and aggregation, and contribute to the chain reaction of the coagulation cascade. TRIONIC 3.0 significantly accelerates haemostasis^{7,8,9}.

TRIONIC 3.0 can be used as interface with NPWT devices (follow the instructions of the device manufacturer).



PROTOCOL OF USE*



Moistening TRIONIC 3.0, with saline solution (NaCl 0,9%), upon application and before removal, triggers the ionic exchange between the calcium ions of TRIONIC 3.0 and the sodium ions of the solution.

This ionic exchange speeds up the haemostatic and healing efficacy of TRIONIC 3.0 and ensures its gellification.



A - Clean the wound with saline solution (NaCl 0,9%)



D - Or fill the voluminous cavity loosely with the rope



B - Moisten TRIONIC 3.0 (dressings 10x10cm and 10x20cm; rope) with saline solution



E - Leave in place for 48 hours or as indicated below in the change protocol*



C - Apply the dressing on the wound surface



F - Moisten TRIONIC 3.0 with saline solution to facilitate its removal

CHANGE PROTOCOL*

CLEAN WOUND	Every two days
WOUND WITH EXUDATE AND FIBRIN	Daily
INFECTED WOUND	Twice a day
DONOR SITE	Leave TRIONIC 3.0 in place until complete healing The dressing comes off spontaneously between 8 and 15 days

* Always read the information leaflet before use

TRIONIC®

SIZE	REFERENCE	DRESSINGS PER BOX
TRIONIC 9,5 cm x 9,5 cm	TRI 301	10
TRIONIC 10 cm x 20 cm	TRI 302	10
TRIONIC rope 2 gr, 30 cm	TRI 303	6



Infected wounds



Deep wounds



Exuding wounds



Haemorrhagic wounds



NPWT interface

1. Kinetic binding of bacteria on two types of dressings: Algosteril® and Gauze, 1st European workshop surgery-engineering: synergy in biomaterial applications, Montpellier 19-20 May, 1994.
2. Algosteril® dressing vs. Dextranomere in the treatment of Decubitus Ulcers at 20 French Centres. 8th Annual Symposium on the Treatment of the Wound, San Diego, USA, May 1995.
3. Algosteril® vs. Povidone Iodine dressing in the treatment of infected wounds. IXth European Congress of Infectious Surgery, Paris, June 1996
4. ZIEGLER U.E. et al. The treatment of chronic wounds with a new calcium-zinc-manganese alginate dressing. Fortschritte der Medizin 121. Jg. — Originalien Nr.1/2003, S. 19-26.
5. TARIN SAEZ J.J. et al. Effectiveness of bioactive dressing with ionic charge in the reduction of healing time in chronic wounds. Metas de Enferm 9(1): 58-64, February 2006.
6. CASTELLARNAU C. et al. The activating function of bioactive dressing with ionic charge on human fibroblasts. Metas de Enferm 8(7): 50-54, September 2005.
7. SERVANT J.M. et al. Calcium polyuronate dressing supplemented with zinc and manganese (TRIONIC®) in necrotizing dermohypodermatitis of the extremities: a randomized multicenter study. Annals of Burns and Fire Disasters, Vol. XXIII, n.2, June 2010.
8. Algosteril®, calcium alginate, vs. Vaseline Gauze in the Treatment of Excised Lesions of Verneuil's Disease. 4th Australian Wound Management Association Conference, March 2002.
9. PANNIER et al., Efficacy and tolerance of Algosteril® vs. Jelonet® in the treatment of scalp graft donor sites in children. Annales de Chirurgie Plastique Esthétique 47 (2002) 1-6.



TRIONIC® is developed and manufactured in France by Les Laboratoires BROTHIER,
41 Rue de Neuilly - 92735 Nanterre Cedex, France.
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FOR MORE INFORMATION ABOUT TRIONIC®, PLEASE CALL +33 (0) 1 56 38 30 00
or email at info@brothier.com



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