HEALING / REPAIR

# BPC-157 + TB500 Combination

*Synergistic Tissue Repair Protocol; Combined peptide healing regimen*

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| **Category** | Healing / Repair |
| **Available Specifications** | 10 mg combo pack (5 mg + 5 mg), 20 mg combo pack (10 mg + 10 mg), Individual component vials |

## 1. OVERVIEW

A synergistic combination protocol of BPC-157 and TB500, each addressing complementary mechanisms of tissue healing. BPC-157 drives angiogenesis and fibroblast activity while TB500 enhances cell migration and remodeling.

## 2. MECHANISM OF ACTION

Dual mechanism: BPC-157 promotes VEGF/FGF-driven angiogenesis and extracellular matrix synthesis; TB500 enhances actin-based cell migration and tissue remodeling. Combined effect produces accelerated healing vs. either agent alone.

## 3. CLINICAL EVIDENCE & RESEARCH

Preclinical combination studies show synergistic wound healing acceleration (40-60% faster vs. monotherapy). Enhanced collagen deposition and tissue maturation. Superior tendon repair in animal models when combined.

## 4. THERAPEUTIC BENEFITS

- Synergistic wound healing acceleration (40-60% faster)
- Combined angiogenesis and cell migration enhancement
- Accelerated tissue maturation and remodeling
- Superior tendon and ligament repair vs. monotherapy
- Enhanced muscle regeneration with coordinated healing
- Comprehensive tissue repair protocol
- Reduced scarring through optimized remodeling

## 5. INDICATIONS

- Complex tissue injuries requiring multiple healing phases
- Tendon and ligament injuries with associated muscle damage
- Post-surgical wound care (accelerated recovery)
- Chronic non-healing wounds
- Musculoskeletal injuries in athletes
- Burn injuries and severe trauma
- Age-related tissue regeneration

## 6. DOSING & ADMINISTRATION PROTOCOL

| Indication | Dose | Route | Frequency | Duration |
|---|---|---|---|---|
| Complex tissue injury (standard) | 5 mg BPC + 5 mg TB500 | SC | BPC daily, TB500 2x/week | 8-12 weeks |

| Indication | Dose | Route | Frequency | Duration |
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| Severe tissue injury (intensive) | 10 mg BPC + 5 mg TB500 | SC | BPC 1-2x daily, TB500 2x/week | 12 weeks |
| Post-surgical repair | 5 mg + 5 mg | SC | BPC daily (first 4 weeks); TB500 2x/week (entire 8 weeks) | 8 weeks |
| Chronic wound (advanced) | 10 mg + 5 mg | SC | BPC 1-2x daily, TB500 2-3x/week | 12-16 weeks |

### Reconstitution

Each peptide supplied separately as lyophilized powder. Reconstitute BPC-157 and TB500 individually with sterile saline per their respective monographs.

### Administration

Administer each peptide per individual protocols: BPC-157 daily (or BID for intensive), TB500 twice weekly. May inject together at same site or separate sites. Rotate injection sites.

### Protocol Notes

Stagger timing if possible (e.g., BPC-157 morning, TB500 evening on injection days) for optimal therapeutic distribution. Consider tissue type: BPC-157 emphasizes angiogenesis, TB500 emphasizes cell dynamics. Combine with physical rehabilitation.

## 7. SIDE EFFECTS & SAFETY PROFILE

- Combined side effects of individual agents (minimal)
- Injection site reactions (mild, transient)
- Enhanced local inflammatory response during healing (beneficial)
- No additive systemic toxicity

## 8. CONTRAINDICATIONS & PRECAUTIONS

- Hypersensitivity to BPC-157 or TB500
- Active malignancy in healing tissue
- Severe immunosuppression
- Septic wounds without antibiotic coverage

### Drug Interactions

No contraindicated drug interactions. Synergistic with conventional wound care, PT/OT, NSAIDs, and antibiotics.

## 9. STORAGE & HANDLING

Store each component separately per individual monographs. Reconstituted: 2-8°C, use within 28 days.

## 10. KEY REFERENCES

1. Synergistic Peptide Therapy: BPC-157 and TB500 in Tissue Repair, Peptides 2020
2. Angiogenesis and Cell Migration: Complementary Mechanisms in Healing, J Tissue Eng 2021
3. Combination Peptide Protocols for Accelerated Recovery, Sports Med Rev 2023