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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

## These highlights do not include all the information needed to use NEXOBRID safely and effectively. See full prescribing information for NEXOBRID.

#### NEXOBRID<sup>®</sup> (anacaulase-bcdb), for topical gel Initial U.S. Approval: 2022

NEXOBRID contains proteolytic enzymes and is indicated for eschar removal in adults with deep partial thickness and/or full thickness thermal burns (1).

<u>Limitations of Use</u>

The safety and effectiveness of NEXOBRID have not been established for treatment of:

- Chemical or electrical burns (1).
- Burns on the face, perineum, or genitalia (1).
- Burns on the feet of patients with diabetes mellitus or on the feet of patients with occlusive vascular disease (1).
- Circumferential burns (1).
- Burns in patients with significant cardiopulmonary disease, including inhalation injury (1).

NEXOBRID is not recommended for wounds contaminated with radioactive and other hazardous substances to avoid unforeseeable reactions with the product and an increased risk of spreading the noxious substance (1).

- Eartopical use only (2.1)
- For topical use only (2.1).
- NEXOBRID may be applied in up to two applications of 4 hours each (2.1, 2.3, 2.5).
- A first application may be applied to an area of up to 15% body surface area (BSA) (2.1).
- A second application may be applied 24 hours later. The total treated area for both applications must not exceed 20% BSA (2.5).
- Use 1.94 g of anacaulase-bcdb in 2 g powder mixed with 20 g gel per 1% BSA, or 4.85 g of anacaulasebcdb in 5 g powder mixed with 50 g gel per 2.5% BSA (2.1).
- Prepare NEXOBRID at patient's bedside within 15 minutes of intended application (2.2).
- Apply NEXOBRID to a clean, moist wound bed free of burned epidermis layer and blisters, and cover with an occlusive film dressing for 4 hours (2.2).
- See Full Prescribing Information for additional details on preparation, administration, and removal of NEXOBRID (2).

## DOSAGE FORMS AND STRENGTHS

• For topical gel: 8.8% (3).

CONTRAINDICATIONS

- Known hypersensitivity to anacaulase-bcdb, bromelain, pineapples, or to any of the other components (4).
- Known hypersensitivity to papayas or papain because of the risk of cross-sensitivity (4).
- ------ WARNINGS AND PRECAUTIONS ------
- *Hypersensitivity reactions*: Serious hypersensitivity reactions, including anaphylaxis, have been reported with postmarketing use of anacaulase-bcdb. If a hypersensitivity reaction occurs, remove NEXOBRID (if applicable) and initiate appropriate therapy (5.1).
- *Pain*: Manage pain as appropriate for an extensive dressing change of burn wounds. At least 15 minutes prior to NEXOBRID-related procedures ensure adequate pain control measures are in place (5.2).
- *Proteolytic Injury to Non-Target Tissues*: NEXOBRID is not recommended for treatment of burn wounds where medical devices or vital structures could become exposed during eschar removal. Protect any open wounds with skin protectant ointments or ointment gauze to prevent possible exposure to NEXOBRID (5.3).
- *Coagulopathy*: Avoid use of NEXOBRID in patients with uncontrolled disorders of coagulation. Use with caution in patients on anticoagulant therapy or other drugs affecting coagulation, and in patients with low platelet counts and increased risk of bleeding from other causes. Monitor patients for possible signs

The most common adverse reactions (>10%) were pruritus and pyrexia (6.1).

# To report SUSPECTED ADVERSE REACTIONS, contact Vericel Corporation at 1-888-454-BURN or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2023

#### **FULL PRESCRIBING INFORMATION: CONTENTS\***

#### **1 INDICATIONS AND USAGE**

#### **2 DOSAGE AND ADMINISTRATION**

- 2.1 Dosage and Administration Overview
- 2.2 Preparation of Patient and Burn Wound Treatment Area
- 2.3 Preparation and Application of NEXOBRID
- 2.4 Removal of NEXOBRID
- 2.5 Second Application of NEXOBRID
- 2.6 Wound Care after Eschar Removal
- 2.7 Monitoring

#### **3 DOSAGE FORMS AND STRENGTHS**

#### **4 CONTRAINDICATIONS**

### **5 WARNINGS AND PRECAUTIONS**

- 5.1 Hypersensitivity Reactions
- 5.2 Pain Management
- 5.3 Proteolytic Injury to Non-Target Tissues
- 5.4 Coagulopathy

#### **6 ADVERSE REACTIONS**

- 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience

#### **8 USE IN SPECIFIC POPULATIONS**

- 8.1 Pregnancy
- 8.2 Lactation
- 8.4 Pediatric Use
- 8.5 Geriatric Use

#### **11 DESCRIPTION**

#### **12 CLINICAL PHARMACOLOGY**

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics
- 12.6 Immunogenicity

#### **13 NONCLINICAL TOXICOLOGY**

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### **14 CLINICAL STUDIES**

#### **16 HOW SUPPLIED/STORAGE AND HANDLING**

#### **17 PATIENT COUNSELING INFORMATION**

\* Sections or subsections omitted from the full prescribing information are not listed.

## FULL PRESCRIBING INFORMATION

## **1 INDICATIONS AND USAGE**

NEXOBRID is indicated for eschar removal in adults with deep partial thickness (DPT) and/or full thickness (FT) thermal burns.

#### Limitations of Use

The safety and effectiveness of NEXOBRID have not been established for treatment of:

- Chemical or electrical burns
- Burns on the face, perineum, or genitalia
- Burns on the feet of patients with diabetes mellitus or on the feet of patients with occlusive vascular disease
- Circumferential burns
- Burns in patients with significant cardiopulmonary disease, including inhalation injury

NEXOBRID is not recommended for wounds contaminated with radioactive and other hazardous substances to avoid unforeseeable reactions with the product and an increased risk of spreading the noxious substance.

## **2 DOSAGE AND ADMINISTRATION**

#### 2.1 Dosage and Administration Overview

NEXOBRID is only to be administered by a healthcare provider. Healthcare providers should take precautions to avoid exposure to NEXOBRID during preparation and handling (e.g., use of gloves, surgical masks, other protective coverings, as needed) [see Warnings and Precautions (5.1)].

NEXOBRID lyophilized powder and gel vehicle must be mixed prior to administration. Each vial of lyophilized powder, jar of gel vehicle, and the mixed NEXOBRID are for use for only one patient and for one application [see Dosage and Administration (2.3)].

NEXOBRID is available as:

- 2 g of lyophilized powder (containing 1.94 grams of anacaulase-bcdb) mixed in 20 g gel vehicle per 1% body surface area (BSA), or
- 5 g lyophilized powder (containing 4.85 grams of anacaulase-bcdb) mixed in 50 g gel vehicle per 2.5% BSA.

NEXOBRID is for topical use only.

Apply an ointment skin protectant around the treatment area to create an ointment barrier [see Dosage and Administration (2.2), Warnings and Precautions (5.3)].

Apply 3 mm thick layer (approximate thickness of a tongue depressor) of NEXOBRID to an area of up to 15% body surface area (BSA) in one application.

If the wound area is more than 15% BSA, apply NEXOBRID in 2 separate sessions (e.g., treat up to 15% BSA in one session and up to 5% BSA in a second session). Apply the second application of NEXOBRID twenty-four (24) hours after the first application to the same or new burn wound area. The total treatment area must not exceed 20% BSA (40 grams of NEXOBRID lyophilized powder) across two treatment sessions [see Dosage and Administration (2.3, 2.4, 2.5)].

## 2.2 Preparation of Patient and Burn Wound Treatment Area

Use pain management as practiced for an extensive dressing change of burn wounds 15 minutes prior to all NEXOBRID related procedures.

Prepare the wound area as follows:

- 1. Thoroughly clean the wound to remove any charred tissue, blisters, and any topical products.
- 2. Apply a dressing soaked with an antibacterial solution to the treatment area for at least 2 hours.
- 3. Ensure the wound bed is clear of any remnants of topical agents (e.g. silver sulfadiazine or povidone iodine).
- 4. Apply an ointment skin protectant (e.g., petrolatum) 2 to 3 cm outside of the treatment area to create an ointment barrier.
- 5. 5. Protect any open wounds (e.g., laceration, abraded skin and escharotomy incision) with skin protectant ointments or ointment gauze to prevent possible exposure to NEXOBRID [see Warnings and Precautions (5.3)].
- 6. Avoid applying the ointment to the treatment area itself, as this would impede direct contact of NEXOBRID with the eschar.

## 2.3 Preparation and Application of NEXOBRID

Gather the following supplies prior to NEXOBRID preparation and application. All supplies should be sterile:

- Instrument for mixing (e.g., spatula or tongue depressor)
- Tongue depressor for NEXOBRID application
- 0.9% Sodium Chloride Irrigation
- Occlusive film dressing
- Loose, thick fluffy dressing and bandage

Maintain pain management throughout the application as practiced for an extensive dressing change of burn wounds. At least 15 minutes prior to NEXOBRID application, ensure adequate pain control measures are in place to address NEXOBRID-related pain.

#### **Preparation**

Prepare NEXOBRID at the patient's bedside within 15 minutes of the intended application.

Using aseptic technique, mix NEXOBRID lyophilized powder and gel vehicle as follows:

- 1. Pour the NEXOBRID lyophilized powder into the gel vehicle jar.
- Thoroughly mix the NEXOBRID lyophilized powder and gel vehicle using a sterile instrument (e.g., tongue depressor or spatula) until the mixture is uniform. The mixed lyophilized powder and gel vehicle produce NEXOBRID in a final concentration of 8.8% w/w.

Discard NEXOBRID if not used within 15 minutes of preparation, as the enzymatic activity of the product decreases progressively following mixing.

## <u>Application</u>

Apply NEXOBRID within 15 minutes of preparation as follows:

- 1. Moisten the treatment area by sprinkling sterile 0.9% Sodium Chloride Irrigation onto the burn wound.
- 2. Using a sterile tongue depressor, completely cover the moistened treatment area

with the mixed NEXOBRID in a 3 mm thick layer (approximate thickness of a tongue depressor) that completely covers the burn wound area.

- 3. Cover the treated wound with a sterile occlusive film dressing.
- 4. Gently press the occlusive film dressing at the area of contact with the ointment barrier to ensure adherence between the occlusive film dressing and the sterile ointment barrier and to achieve complete containment of NEXOBRID on the treatment area. NEXOBRID gel should fill the entire volume of the treatment area, and there should be no visible air under the occlusive film dressing.
- 5. Cover the dressed wound with a sterile loose, thick, fluffy dressing and secure with a sterile bandage.
- 6. Leave the dressing and NEXOBRID in place for 4 hours.
- 7. Discard any unused portions of NEXOBRID.

## 2.4 Removal of NEXOBRID

Remove NEXOBRID after 4 hours. Gather the following supplies prior to NEXOBRID removal. All supplies should be sterile:

- Blunt-edged instruments (e.g., tongue depressor)
- Large dry gauze
- Gauze soaked with 0.9% Sodium Chloride Irrigation
- Dressing soaked with an antibacterial solution

Implement and maintain pain management as practiced for an extensive dressing change of burn wounds throughout the following removal procedure:

- 1. Remove the occlusive film dressing using aseptic technique.
- 2. Remove the ointment barrier using a sterile blunt-edged instrument.
- 3. Remove the dissolved eschar from the wound by scraping it away with a sterile bluntedged instrument.
- 4. Wipe the wound thoroughly with a large sterile dry gauze, then wipe with a sterile gauze that has been soaked with sterile 0.9% Sodium Chloride Irrigation. Rub the treated area until the appearance of a clean dermis or subcutaneous tissues with pinpoint bleeding.
- 5. To remove remnants of dissolved eschar, apply a dressing soaked with an antibacterial solution for at least 2 hours.

## 2.5 Second Application of NEXOBRID

A second application of NEXOBRID may be applied 24 hours following the first application to either the same area previously treated with NEXOBRID or to a new area *[see Dosage and Administration (2.2, 2.3,2.4)]*. A second application may be considered if:

- The wound area is more than 15% BSA, or
- Multiple wound areas on different body surfaces require two treatments for logistical reasons such as body position, or
- The first application's eschar removal was not complete.

The total treated area must not exceed 20% BSA, inclusive of both applications [see Dosage and Administration (2.1)].

## 2.6 Wound Care after Eschar Removal

Wound care following eschar removal should be based on the healthcare provider's clinical judgement (e.g., observe for spontaneous reepithelization or proceed with autograft).

## 2.7 Monitoring

Monitor patients for signs of local or systemic allergic reactions. If a hypersensitivity reaction occurs, remove NEXOBRID (if applicable) from the treatment area and initiate appropriate therapy [see Contraindications (4), Warnings and Precautions (5.1)].

## **3 DOSAGE FORMS AND STRENGTHS**

For topical gel: 8.8%; off-white to light tan lyophilized powder in a glass vial to be mixed in a clear and colorless gel vehicle in a glass jar.

## **4 CONTRAINDICATIONS**

NEXOBRID is contraindicated in patients with [see Warnings and Precautions (5.1), Description (11)]:

- Known hypersensitivity to anacaulase-bcdb, bromelain, pineapples, or to any of the other components.
- Known hypersensitivity to papayas or papain because of the risk of cross-sensitivity.

## **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Hypersensitivity Reactions

#### NEXOBRID-Treated Patients

Serious hypersensitivity reactions, including anaphylaxis, have been reported with postmarketing use of NEXOBRID [see Adverse Reactions (6.2)]. If a hypersensitivity reaction occurs, remove NEXOBRID (if applicable) and initiate appropriate therapy [see Dosage and Administration (2.7)].

NEXOBRID is contraindicated in patients with a known hypersensitivity to anacaulasebcdb, bromelain, pineapples or to any other component of NEXOBRID. NEXOBRID is also contraindicated in patients with known hypersensitivity to papayas or papain because of the risk of cross-sensitivity.

#### Healthcare Providers Preparing and Applying NEXOBRID

Healthcare personnel should take appropriate precautions to avoid exposure when preparing and handling NEXOBRID (e.g., gloves, surgical masks, other protective coverings, as needed). In the event of inadvertent skin exposure, rinse NEXOBRID off with water to reduce the likelihood of skin sensitization.

## 5.2 Pain Management

Eschar removal with NEXOBRID and treatment-related burn wound procedures are painful and require adequate analgesia and/or anesthesia. Pain management should be appropriate for an extensive dressing change of burn wounds. At least 15 minutes prior to NEXOBRID application ensure adequate pain control measures are in place to address NEXOBRID-related pain [see Dosage and Administration (2.2, 2.3, 2.4)].

## 5.3 Proteolytic Injury to Non-Target Tissues

NEXOBRID is not recommended for treatment of burn wounds where medical devices (e.g., implants, pacemakers, shunts) or vital structures (e.g., large vessels) could

become exposed during eschar removal.

Protect any open wounds (e.g., laceration, abraded skin and escharotomy incision) with skin protectant ointments or ointment gauze to prevent possible exposure to NEXOBRID [see Dosage and Administration (2.2)].

## 5.4 Coagulopathy

A reduction of platelet aggregation and plasma fibrinogen levels and a moderate increase in partial thromboplastin and prothrombin times have been reported in the literature as possible effects following oral administration of bromelain, a component of NEXOBRID. In vitro and animal data suggest that bromelain can also promote fibrinolysis.

Avoid use of NEXOBRID in patients with uncontrolled disorders of coagulation. Use NEXOBRID with caution in patients on anticoagulant therapy or other drugs affecting coagulation, and in patients with low platelet counts and increased risk of bleeding from other causes (e.g., peptic ulcers and sepsis). Patients should be monitored for possible signs of coagulation abnormalities and signs of bleeding.

## **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are described elsewhere in the labeling:

• Hypersensitivity Reactions [Warnings and Precautions (5.1)]

## 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a product cannot be directly compared to rates in the clinical trials of another product and may not reflect the rates observed in practice.

Studies 1 and 2 evaluated subjects undergoing eschar removal for deep partial thickness (DPT) and/or full thickness (FT) thermal burns [see Clinical Studies (14)]. An integrated analysis of safety data from Studies 1 and 2 compared NEXOBRID (n=177) to standard of care (SOC) (n=149). The SOC treatment included both surgical and non-surgical eschar removal methods.

The mean age of the safety population was 35.6 years; 73% were male; 81% were White, 9% were Black, 6% were other races, and 3% were Asian. Regarding burn etiology, 65% had fire/flame burns, 26% had scald burns, 8% had contact burns, and <1% had burns of other etiology. The mean body surface area (BSA) of wounds that received study treatment was  $9.2\pm5.07\%$ . Mean BSA of all burn wounds was  $12.0\pm6.05\%$ . Of the 177 subjects who were treated with NEXOBRID in Studies 1 and 2, 159 (90%) received one treatment of NEXOBRID, and 18 (10%) received 2 treatments.

Table 1 presents adverse reactions that occurred in  $\geq 1\%$  of subjects in the NEXOBRID arm and at a higher incidence than the SOC arm, up to 3 months following wound closure.

Table 1: Adverse Reactions Reported in ≥1% and Greater Incidence than Standard of Care in NEXOBRID-Treated Patients for Eschar Removal in Deep Partial Thickness and/or Full Thickness Thermal Burns in Studies 1 and 2<sup>a</sup>

NEXOBRID (N = 177)	Standard of Care <sup>b</sup> (N = 149)
Patients	Patients

	n (%)	n (%)
Pruritus	27 (15)	19 (13)
Pyrexia	21 (12)	13 (9)
Wound complication <sup>c</sup>	15 (9)	9 (6.0)
Anemia	11 (6)	8 (5)
Vomiting	9 (5)	4 (3)
Insomnia	8 (5)	6 (4)
Urinary tract infection	7 (4)	1(1)
Tachycardia	5 (3)	0
Rash	6 (3)	0
Infection	4 (2)	2 (1)
Sepsis	4 (2)	1(1)
Leukocytosis	3 (2)	1(1)
Hypotension	3 (2)	1(1)
Hepatic function abnormal	2 (1)	0
Drug hypersensitivity	2 (1)	0
Bacteremia	2 (1)	0
Scar	2 (1)	0
Subcutaneous hematoma	2 (1)	0
Decubitus ulcer	2 (1)	0

<sup>a</sup> During the time period from baseline to 3 months post wound closure

<sup>b</sup> Standard of Care treatment included both surgical and non-surgical eschar removal methods

<sup>c</sup> Wound complication includes skin graft failure, graft loss, graft complication, and wound decomposition

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of anacaulase-bcdb outside of the United States. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Immune system disorders: Hypersensitivity, including anaphylaxis and urticaria

## **8 USE IN SPECIFIC POPULATIONS**

## 8.1 Pregnancy

## <u>Risk Summary</u>

There are no available data on NEXOBRID use in pregnant women to evaluate for a drug associated risk of major birth defects, miscarriage, or other adverse maternal or fetal outcomes.

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

## Animal Data

In embryofetal developmental studies in rats and rabbits, intravenous doses up to 4 and 0.1 mg/kg/day NEXOBRID were administered to pregnant rats and rabbits, respectively, during organogenesis. No significant developmental toxicities were observed in these studies. However, severe maternal toxicities were noted and the tolerable maternal exposure levels were much lower compared with the maximum human exposure in clinical setting.

## 8.2 Lactation

## Risk Summary

There are no data on the presence of anacaulase-bcdb in either human or animal milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for NEXOBRID and any potential adverse effects on the breastfed infant from NEXOBRID or from the underlying maternal condition.

## 8.4 Pediatric Use

The safety and effectiveness of NEXOBRID in pediatric patients have not been established.

## 8.5 Geriatric Use

Of the 177 subjects exposed to NEXOBRID for eschar removal in deep partial thickness (DPT) and/or full thickness (FT) thermal burns, 6 (3%) subjects were 65 years or older, and 1 (< 1%) subject was 75 years or older *[see Clinical Studies (14)]*. Clinical studies of NEXOBRID did not include sufficient numbers of subjects 65 years of age and older to determine whether they respond differently from younger adult subjects.

## **11 DESCRIPTION**

The drug substance in NEXOBRID, anacaulase-bcdb, is a mixture of proteolytic enzymes extracted from the stems of pineapple plants (*Ananas comosus* [L.] Merr.) that has been sterile filtered and lyophilized. The drug substance, anacaulase-bcdb, is composed mainly (80% to 95% w/w) of the proteins: stem bromelain, ananain, jacalin-like lectin, bromelain inhibitors, and phytocystatin inhibitor; and saccharides, as both free monosaccharides and the N-linked glycan of stem bromelain, and small molecule metabolites. The drug substance includes inactive buffer components containing acetic acid, ammonium sulfate, and Water for Injection. Each gram of lyophilized powder contains 0.97 grams of anacaulase-bcdb.

NEXOBRID (anacaulase-bcdb) for topical gel is a botanical drug product supplied as a sterile, preservative-free, lyophilized powder in a single-dose glass vial that must be mixed in a gel vehicle supplied in a single-dose glass jar prior to application. Mixture of either 2 grams of lyophilized powder (containing 1.94 grams of anacaulase-bcdb) or 5 grams of lyophilized powder (containing 4.85 grams of anacaulase-bcdb) in 20 grams or 50 grams of gel vehicle, respectively, provides an 8.8% w/w, yellowish white to light brown opaque gel for topical use. The pH of the topical gel mixture is approximately 6.2 to 6.7.

The co-packaged 20 gram or 50 gram jar of the sterile, preservative-free gel vehicle contains carbomer 980, dibasic sodium phosphate, sodium hydroxide, and Water for Injection.

## **12 CLINICAL PHARMACOLOGY**

## 12.1 Mechanism of Action

The mixture of enzymes in NEXOBRID dissolves burn wound eschar. The specific components responsible for this effect have not been identified.

## **12.2 Pharmacodynamics**

The pharmacodynamics of NEXOBRID are unknown.

#### Cardiac Electrophysiology

At the approved recommended dose, NEXOBRID did not prolong the QT interval in humans to any clinically relevant extent.

#### 12.3 Pharmacokinetics

#### <u>Absorption</u>

Topically applied NEXOBRID to deep partial and full thickness burn wounds is rapidly absorbed, with median serum  $T_{max}$  of 4 hours (during the treatment application). Systemic exposure (i.e., AUC) of bromelain, a component of anacaulase-bcdb is correlated with the size of the treated area and NEXOBRID dose, but not the depth of the burn wound.

#### **Elimination**

A majority of subjects had no quantifiable serum concentrations after 72 hours. The mean  $\pm$  SD terminal half-life of bromelain, a component of anacaulase-bcdb, is 12  $\pm$  4.4 hours.

 $C_{max}$  and the dose-normalized  $C_{max}$  values after the first and second application (mean dosing interval of 17 hours) are comparable and only slight accumulation (less than 2-fold difference) is seen in AUC<sub>0-4</sub> and AUC<sub>0-4</sub> dose-normalized levels after the second application, compared to the first application.

#### Drug Interaction Studies

#### Effect of NEXOBRID on Other Drugs

Bromelain, a component of anacaulase-bcdb, exhibited CYP2C8 time-dependent inhibition in human hepatocytes and inhibited human microsomal CYP2C9. No clinical studies have been conducted to assess the potential for systemic drug interactions.

#### 12.6 Immunogenicity

There is insufficient information to characterize the anti-drug antibody response to anacaulase- bcdb and the effects of anti-drug antibodies on pharmacokinetics, pharmacodynamics, safety, or effectiveness of NEXOBRID.

## **13 NONCLINICAL TOXICOLOGY**

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity or fertility studies have not been conducted with anacaulase-bcdb.

Anacaulase-bcdb was not genotoxic in a bacterial reverse mutation assay and an in vitro

## **14 CLINICAL STUDIES**

The efficacy of NEXOBRID for the eschar removal of deep partial thickness (DPT) and full thickness (FT) thermal burns has been investigated in two trials.

## Study 1

NEXOBRID was investigated in the DETECT randomized, controlled, assessor-blinded, three-arm study, comparing NEXOBRID, standard of care (SOC), and gel vehicle treatment in subjects with DPT and/or FT thermal burns of 3 - 30% BSA (Study 1, NCT02148705). SOC included both surgical and non-surgical methods for eschar removal per the investigators' discretion. Subjects on the NEXOBRID and gel vehicle arms who had eschar remaining following the topical treatment period were treated with SOC. NEXOBRID was compared to gel vehicle for the incidence of  $\geq$ 95% eschar removal at the end of the topical treatment period. NEXOBRID was also compared with SOC for the incidence of surgical eschar removal (tangential, minor, avulsion, Versajet and/or dermabrasion excision) and time to eschar removal.

A total of 175 subjects were randomized in a 3:3:1 ratio (NEXOBRID : SOC : gel vehicle) and 169 subjects were treated. The mean age was 41 years, 70% of subjects were male and 30% were female, and 81% were White, 14% were Black or African American, 5% were other races, and 1% were Asian. Seventeen percent of subjects were Hispanic or Latino. Subjects had one or more target wounds (TWs) to be treated for eschar removal. The mean percentage BSA of all TWs per subject was 6.1%. The majority of subjects (82%) had one to two TWs.

The incidence of  $\geq$ 95% eschar removal at the end of the topical treatment period for subjects in the NEXOBRID and gel vehicle groups is shown in Table 2.

Table 2: Incidence of ≥95% Eschar Removal at the End of the Topical Treatment Period in NEXOBRID- or Gel Vehicle-Treated Subjects with Deep Partial Thickness and/or Full Thickness Thermal Burns (Study 1; DETECT)

NEXOBRID (N=75)	Gel Vehicle (N=25)	Treatment Difference (95% Confidence Interval)
93%	4%	89% (74%, 96%)
(70/75)	(1/25)	

The incidence of surgical eschar removal (tangential, minor, avulsion, Versajet and/or dermabrasion excision) and time to  $\geq$ 95% eschar removal for the NEXOBRID and SOC groups are shown in Table 3.

#### Table 3: Incidence of Excision for Eschar Removal in NEXOBRID- or SOC-Treated Subjects with Deep Partial Thickness and/or Full Thickness Thermal Burns (Study 1; DETECT)

NEXOBRID	SOC	Treatment Difference	
(N=75)	(N=75)	(95% Confidence Interval	
4%	72%	-68% (-78%, -56%)	
(3/75)	(54/75)		

SOC = standard of care

The median time to eschar removal was 1 day on the NEXOBRID arm and 3.8 days on the SOC arm.

The estimated median time to  $\geq$ 95% wound closure for all TWs on a subject was 31 days for the NEXOBRID arm and 36 days for the SOC treatment arm. Subjects were not evaluated frequently enough after achieving  $\geq$ 95% wound closure to adequately assess time to 100% wound closure.

### <u>Study 2</u>

NEXOBRID was investigated in a multicenter, open-label, randomized, two-arm study, comparing NEXOBRID to SOC treatment in subjects with DPT and/or FT thermal burns of 5 - 24% BSA (Study 2; NCT00324311). SOC included both surgical and non-surgical methods for eschar removal per the investigators' discretion. The study enrolled 182 subjects. The first subject at each site (26 subjects) was not randomized and was treated with NEXOBRID. The remaining 156 subjects were randomized to NEXOBRID or SOC. The efficacy assessments were analyzed on DPT burns only.

Demographics were similar across both arms. The mean age was 29.9 years. Approximately 80% of the study subjects were adults ( $\geq$ 18 years), 74% were male and 26% were female, 82% were White, 7% were other races, 6% were Black, and 5% were Asian.

The incidence of surgical eschar removal (tangential, minor, avulsion, Versajet and/or dermabrasion excision) for the NEXOBRID and SOC groups is shown in Table 4.

	NEXOBRID N=106 Wounds in 49 Subjects <sup>a</sup>	SOC N=88 Wounds in 48 Subjects <sup>a</sup>	Treatment Difference (95% Confidence Interval)
Incidence of excision for eschar removal (per wound) <sup>b</sup>	15% 16/106 wounds	63% 55/88 wounds	-47% (-59%, -34%)
Incidence of excision for eschar removal (per subject) <sup>b, c</sup>	22% 11/49 subjects	77% 37/48 subjects	-55% (-71%, -38%)

# Table 4: Incidence of Excision of Eschar Removal of Deep Partial ThicknessWounds in Patients with Thermal Burns (Study 2)

SOC = standard of care

<sup>a</sup>Analysis population includes only patients with at least one wound that was entirely DPT <sup>b</sup>Surgical eschar removal procedures include (tangential, minor, avulsion, Versajet and/or dermabrasion excision)

<sup>c</sup>Assessement per subject was an exploratory analysis

In randomized subjects, the estimated median time to  $\geq$ 95% wound closure was 33 days for the NEXOBRID arm and 24 days for the SOC treatment arm. Subjects were not evaluated frequently enough after achieving  $\geq$ 95% wound closure to adequately assess time to 100% wound closure.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### How Supplied

NEXOBRID (anacaulase-bcdb) for topical gel, 8.8%, is supplied as a package containing two components, a sterile, preservative-free, off-white to light tan lyophilized powder in a glass vial and a sterile, preservative-free, clear and colorless gel vehicle in a glass jar, that are mixed prior to application [see Dosage and Administration (2.3)].

NEXOBRID is available:

- One glass vial of 2 g lyophilized powder (containing 1.94 grams of anacaulase-bcdb) and one glass jar of 20 g gel vehicle per carton (NDC 69866-2002-3)
- One glass vial of 5 g lyophilized powder (containing 4.85 grams of anacaulase-bcdb) and one glass jar of 50 g gel vehicle per carton (NDC 69866-2005-3)

### Storage and Handling

Store and transport NEXOBRID package upright and refrigerated at 2°C to 8°C (36 °F to 46 °F) in the original carton to protect from light. DO NOT FREEZE.

Do not use if the vial or jar are damaged [see Dosage and Administration (2.3)].

## **17 PATIENT COUNSELING INFORMATION**

#### Hypersensitivity Reactions

Advise patients of the risk of hypersensitivity reactions, including anaphylaxis [see Warnings and Precautions (5.1)].

Manufactured for: Vericel Corporation 64 Sidney Street, Cambridge, MA 02139 U.S. License number 2215

NEXOBRID<sup>®</sup> is a registered trademark of MediWound LTD.

L65629.3

## PRINCIPAL DISPLAY PANEL - NDC: 69866-2002-3 - 2g/20g Carton Label



## PRINCIPAL DISPLAY PANEL - NDC: 69866-2005-3 - 5g/50g Carton Label





Product Infor	mation						
Product Type	HUMAN PRESCRIPTION DRUG				ce)	NDC:69	866-2002
,,,,							
Packaging							
# Item Code	e Packa	ge Description	Marketing	Start Da	ite Ma	rketing	J End Date
<b>1</b> NDC:69866-2002	2-3 1 in 1 CAF	RTON	12/29/2022				
Quantity of P	arts						
Part #	Package (	Duantity		Total P	roduct O	uantitv	
Part 1 1 VIAL, GL	ASS		2 g				
Part 2 1 JAR			20 g				
Part 1 of 2							
NEXOBRID							
anacaulase-bcd	b powder						
	•						
Product Infor	mation						
ltem Code (Sou	rce)	NDC:69866-2000					
Route of Admin	istration	TOPICAL					
Active Ingred	ient/Active	Moiety					
	Ingre	edient Name			Basis Strenc	of 1th	Strength
ANACAULASE-BCI	<b>DB</b> (UNII: JD24M5	399U) (ANACAULASE	-BCDB -				158 mg
UNII:JD24M53P9U)				Ar	VACAULASE-	BCDB	in 1 g
Inactive Ingre	dients						
<b>j</b>		Ingredient Nam	e			St	rength
ACETIC ACID (UNI	: Q40Q9N063P)	5					3
AMMONIUM SULF	ATE (UNII: SU46	BAM238)					
WATER (UNII: 0590	(F0KO0R)						
Packaging							
Packaging				Markoti	na Start	Mar	koting End
# Item Code	Pa	ckage Descriptio	on	Da	te	Man	Date
<b>1</b> NDC:69866-	2 g in 1 VIAL, C	GLASS; Type 0: Not a	Combination				
2000-1	rioudet						
Marketing	Informat	ion					
Marketing	Annlica	tion Number or M	onograph	Marketi	ing Start	Mar	keting End
Planketing	Applica		Silvgrupii	THATKEL			

Category		Citation		Date	D	ate
BLA	BLA761192			12/29/2022		
Part 2 of 2						
<b>STERILE</b>						
sterile ger						
Product Inform	nation					
Item Code (Sour	ce)	NDC:69866-2001				
Route of Adminis	tration	TOPICAL				
Inactive Ingred	lients					
		Ingredient Name				Strength
WATER (UNII: 059QF	0KO0R)					
<b>CARBOMER HOMO</b> 4Q93RCW27E)	POLYMER TY	PE C (ALLYL PENTAERYTHRITO	LC	ROSSLINKED) (UNII:		
SODIUM PHOSPHAT	ΓΕ, DIBASIC,	ANHYDROUS (UNII: 22ADO53M6F	)			
SODIUM HYDROXID	<b>E</b> (UNII: 55X04	4QC32I)				
Packaging						
# Item Code	Рас	kage Description	Ν	larketing Start Date	Marketi Da	ing End Ite
1 NDC:69866- 2001-2	20 g in 1 JAR; Product	Type 0: Not a Combination				
Marketing I	nformat	ion				
Marketing Category	Applica	tion Number or Monograph Citation		Marketing Start Date	Marke D	ting End ate
BLA	BLA761192			12/29/2022		
Marketing I	nformat	ion				
Marketing Category	Applica	tion Number or Monograph Citation		Marketing Start Date	Marke D	ting End ate
BLA	BLA761192			12/29/2022		

# NEXOBRID anacaulase-bcdb kit Product Information Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:69866-2005

Packaging											
# Item Code	e Packa	ae Description	Marketin	g Start Date	Mark	ketina	End Date				
1 NDC:69866-2005	5-3 1 in 1 CA	RTON	12/29/2022			<b>y</b>					
Quantity of P	arts										
Part # Package Quantity Total Product Quantity											
Part 1 1 VIAL, GL	ASS	Quanticy	5 g	lotarrioud	ici qui	Jincicy					
Part 2 1 JAR			50 g								
Part 1 of 2											
<b>NEXOBRID</b>											
anacaulase-bcd	b powder										
Product Infor	mation										
ltem Code (Sou	rce)	NDC:69866-2003									
Route of Admin	istration	TOPICAL									
Active Ingred	ient/Active	Moiety		Active Ingredient/Active Moiety							
Ingredient Name Basis of Strength Strength											
	Ingr	edient Name		B	asis o trengt	f h	Strength				
	ingro DB (UNII: JD24M	<b>edient Name</b> 53P9U) (ANACAULASE	-BCDB -	B St ANACAL	<b>asis o</b> <b>trengt</b> JLASE-BO	f h CDB	Strength				
<b>ANACAULASE-BCI</b> UNII:JD24M53P9U)	ing r	<b>edient Name</b> 53P9U) (ANACAULASE	-BCDB -	B St ANACAL	asis o trengt JLASE-BO	f h CDB	Strength 158 mg in 1 g				
<b>ANACAULASE-BCI</b> UNII:JD24M53P9U)	ingr DB (UNII: JD24M	<b>edient Name</b> 53P9U) (ANACAULASE	-BCDB -	ANACAL	asis o trengt	f h CDB	Strength 158 mg in 1 g				
ANACAULASE-BCD UNII:JD24M53P9U)	Ingr DB (UNII: JD24M edients	<b>edient Name</b> 53P9U) (ANACAULASE	-BCDB -	ANACAL	<b>asis o</b> trengt	f h CDB	Strength 158 mg in 1 g				
ANACAULASE-BCI UNII:JD24M53P9U)	Ingro DB (UNII: JD24M edients	edient Name 53P9U) (ANACAULASE Ingredient Nam	-BCDB - <b>e</b>	ANACAL	asis o trengt	f h CDB Sti	Strength 158 mg in 1 g				
ANACAULASE-BCE UNII:JD24M53P9U)	Ingro DB (UNII: JD24M edients : Q40Q9N063P)	edient Name 53P9U) (ANACAULASE Ingredient Nam	-BCDB - e	ANACAL	asis o trengt	f h CDB Sti	Strength 158 mg in 1 g rength				
ANACAULASE-BCE UNII:JD24M53P9U) Inactive Ingre ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 059C	Ingr DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 P60K00R)	edient Name 53P9U) (ANACAULAS E Ingredient Nam 6BAM238)	-BCDB - <b>e</b>	ANACAL	asis o trengt	f h CDB Sti	Strength 158 mg in 1 g				
ANACAULASE-BCE UNII:JD24M53P9U) Inactive Ingre ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 059C	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 QF0KO0R)	edient Name 53P9U) (ANACAULAS E Ingredient Nam 6BAM238)	-BCDB - e	ANACAL	asis o trengt	f h CDB Sti	Strength 158 mg in 1 g				
ANACAULASE-BCE UNII:JD24M53P9U) Inactive Ingre ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 0590 Packaging	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 QF0KO0R)	edient Name 53P9U) (ANACAULAS E Ingredient Nam 6BAM238)	-BCDB - e	ANACAL	JLASE-B	f h CDB Sti	Strength 158 mg in 1 g rength				
ANACAULASE-BCE UNII: JD24M53P9U) Inactive Ingre ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 059C	Ingr DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU44 PGKOOR) Pa	edient Name 53P9U) (ANACAULASE Ingredient Nam 6BAM238)	-BCDB - e	Marketing St Date	tart	f h CDB Sti	Strength 158 mg in 1 g rength				
ANACAULASE-BCE UNII:JD24M53P9U) ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 0590 Packaging # Item Code 1 NDC:69866- 2003-1	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 FOKOOR) Pa 5 g in 1 VIAL, ( Product	edient Name 53P9U) (ANACAULASE Ingredient Nam 6BAM238) 6Ckage Descriptio GLASS; Type 0: Not a	-BCDB -	Marketing St Date	tart	f h CDB Sti	Strength				
ANACAULASE-BCE UNII: JD24M53P9U) ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 0590 Packaging # Item Code 1 NDC:69866- 2003-1	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 FOKOOR) Pa 5 g in 1 VIAL, ( Product	edient Name 53P9U) (ANACAULASE Ingredient Nam 6BAM238) 6Ckage Descriptie GLASS; Type 0: Not a	-BCDB - e on Combination	Marketing St Date	tart	f h CDB Sti	Strength 158 mg in 1 g rength rength seting End Date				
ANACAULASE-BOR UNII:JD24M53P9U) ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 0590 Packaging # Item Code 1 NDC:69866- 2003-1	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 FOKOOR) Pa 5 g in 1 VIAL, ( Product	edient Name 53P9U) (ANACAULASE Ingredient Nam 6BAM238) ckage Descriptio GLASS; Type 0: Not a	-BCDB - e con Combination	Marketing St Date	tart	f h CDB Sti	Strength 158 mg in 1 g rength seting End Date				
ANACAULASE-BCE UNII:JD24M53P9U) ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 0590 Packaging # Item Code 1 NDC:69866- 2003-1	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU44 ProkCOR) Pa 5 g in 1 VIAL, ( Product Informat Applica	edient Name 53P9U) (ANACAULASE Ingredient Nam 6BAM238) 6Ckage Description GLASS; Type 0: Not a Cion tion Number or M	-BCDB - e e on Combination lonograph	Marketing S Marketing S	tart	f h CDB Sti Mark	Strength 158 mg in 1 g rength rength ceting End Date				
ANACAULASE-BCE UNII:JD24M53P9U) ACETIC ACID (UNII AMMONIUM SULF WATER (UNII: 0590 Packaging # Item Code 1 NDC:69866- 2003-1 Marketing Category BLA	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 PTOKOOR) Pa 5 g in 1 VIAL, ( Product Informat Applica BI A761192	edient Name 53P9U) (ANACAULASE Ingredient Nam 5BAM238) ockage Description GLASS; Type 0: Not a SiON tion Number or M Citation	-BCDB -  e  c on Combination lonograph	Marketing S Date	tart	f h CDB Sti Mark	Strength 158 mg in 1 g rength rength Seting End Date				
ANACAULASE-BOR         UNII:JD24M53P9U)         Inactive Ingree         ACETIC ACID (UNII         ACETIC ACID (UNII         MONIUM SULF         WATER (UNII: 0590)         Item Code         1         NDC:69866- 2003-1         Marketing Category         BLA	Ingro DB (UNII: JD24M edients : Q40Q9N063P) ATE (UNII: SU40 ProkOOR) Pa 5 g in 1 VIAL, ( Product Informat Applica BLA761192	edient Name 53P9U) (ANACAULASE Ingredient Nam 6BAM238) 6Ckage Descriptic GLASS; Type 0: Not a Citation	-BCDB - e e Combination lonograph	Marketing S Date 12/29/2022	tart	f h CDB Sti Mark	Strength 158 mg in 1 g rength rength seting End Date				

Part 2 of 2				
<b>STERILE</b> sterile gel				
Product Inform	mation			
ltem Code (Sour	ce)	NDC:69866-2004		
Route of Admini	stration	TOPICAL		
Inactive Ingre	dients			
		Ingredient Name		Strength
WATER (UNII: 059Q	F0KO0R)			
4Q93RCW27E)	POLYMER TYI	PE C (ALLYL PENTAERYTHRITO	L CROSSLINKED) (UNII:	
SODIUM PHOSPHA	TE, DIBASIC,	ANHYDROUS (UNII: 22ADO53M6F	-)	
SODIUM HYDROXII	<b>DE</b> (UNII: 55X04	IQC32I)		
Packaging				
# Item Code	Pac	kage Description	Marketing Start Date	Marketing End Date
<b>1</b> NDC:69866- 2004-2	50 g in 1 JAR; Product	Type 0: Not a Combination		
Marketing	nformat	ion		
Marketing Category	Applica	tion Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA761192		12/29/2022	
Marketing I	nformat	ion		
Marketing Category	Applica	tion Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA761192		12/29/2022	

Labeler - Vericel Corporation (079745570)

Revised: 3/2023

Vericel Corporation