



## **ExoCyan Cran® – A Potent Cranberry Extract Supporting Oral Health**

### **Overview**

ExoCyan Cran® is a patented cranberry extract standardized for its high content of proanthocyanidins (PACs) — powerful antioxidants that play a vital role in preventing bacterial adhesion, modulating inflammation, and supporting gum and tooth health. In the context of oral care, ExoCyan Cran is a clinically relevant, natural bioactive that complements a broader preventive oral hygiene regimen.

### **Why It's Included in DentiMints**

DentiMints utilizes ExoCyan Cran specifically for its ability to:

- Help **reduce harmful oral bacteria** without disrupting beneficial oral flora
- **Inhibit plaque formation** by preventing bacterial adhesion to tooth surfaces
- **Support gum tissue health** by reducing inflammation and oxidative stress
- Enhance the protective efficacy of other active ingredients in the DentiMints formulation

ExoCyan Cran delivers these benefits without contributing to sourness or bitterness, especially when paired with flavor-masking agents in the DentiMints formula.

### **Mechanism of Action in Oral Health**

Proanthocyanidins from cranberries inhibit the adhesion of *Streptococcus mutans* and *Porphyromonas gingivalis* — two of the main bacteria associated with dental plaque and periodontal disease. By interrupting bacterial bonding to enamel and soft tissue, ExoCyan Cran acts as a protective barrier in the early stages of biofilm development, reducing the opportunity for plaque to mature.

Additionally, the antioxidant activity of PACs reduces oxidative stress in the gums, which is known to contribute to gingival inflammation and tissue damage.

### **Supporting Research**

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- **Cranberry PACs and Bacterial Adhesion:** A study published in *Journal of Agricultural and Food Chemistry* (2005) demonstrated that cranberry-derived PACs significantly inhibited *S. mutans* adhesion to hydroxyapatite — a key mineral in enamel.
- **Anti-Inflammatory Properties:** Research in *Molecular Nutrition & Food Research* (2010) highlighted cranberry's ability to reduce pro-inflammatory cytokines in oral tissue models.
- **Oral Health Applications:** A 2020 review in *Frontiers in Nutrition* noted that cranberry bioactives are “an emerging ingredient in functional oral care products” due to their non-bactericidal but effective anti-adhesion properties.

## **Conclusion**

ExoCyan Cran® provides a powerful, natural means of supporting oral health by disrupting plaque formation and promoting gum resilience. Its inclusion in DentiMints not only elevates the functional integrity of the formula but also helps position the product as a credible tool in modern, on-the-go oral hygiene.