



POLIMI

POLIMI PEPTIDE

2026

Polimi Peptide

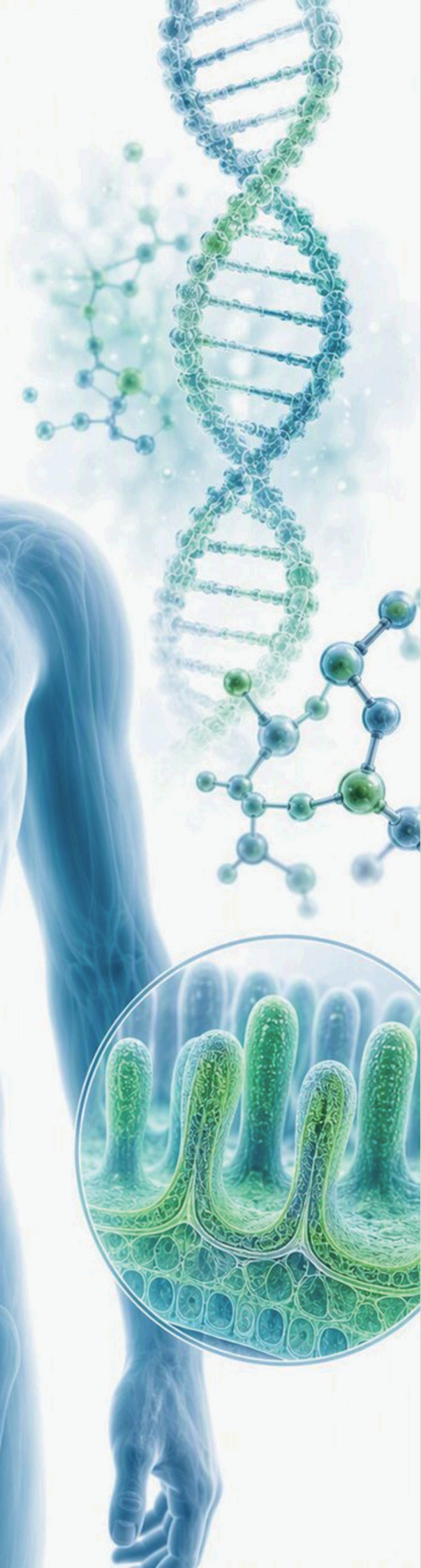
A natural rice peptide for mucosal repair

A natural low-molecular-weight peptide from rice that helps repair damaged mucosa and the skin barrier.

CN Patent ZL 2023 11255096.1 • PCT application
PCT/CN2023/121316

We do not sell raw material alone — we provide turn-key solutions from formula to finished product.

Food • Supplements • Cosmetics • Medical devices





Contents

The problem & the mechanism

Scientific evidence

Nine directions

Intellectualproperty

Cooperation model

Food •Supplements

Gummies • Drinks • Tablets • Gum • Probiotic • Paste

Cosmetics • Medical devices

Oral patch • Skin gel • Intimate gel • Dressing • Spray



THE INVISIBLE PROBLEM

Mucosal damage — every day, for millions

482k

New cancer cases in China in 2022; many face radio-and chemotherapy

40—80%

Of patients on radio-/chemotherapy develop oral mucositis

224M

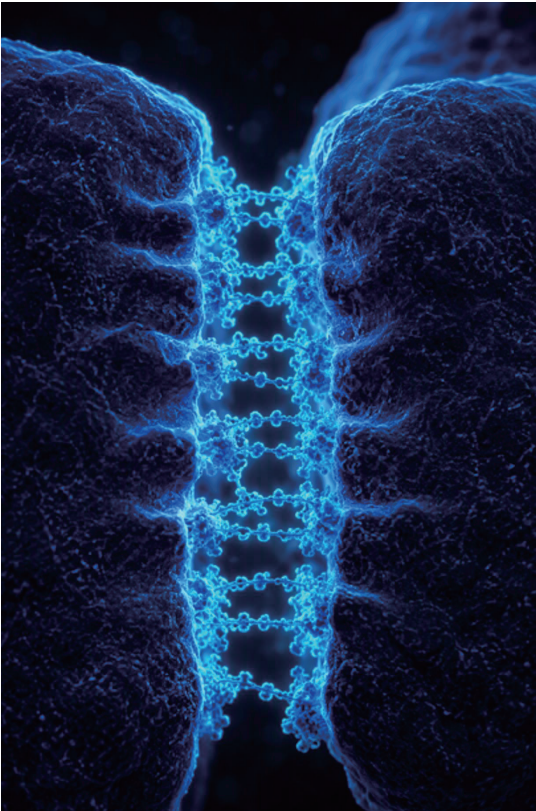
Peptic-ulcer visits in China in 2023mucositis



The mucosa lines the mouth, gut, airways, genital tract — and the skin

But existing options only «mask» it

Painkillers only numb, antacids only suppress acid, patches only cover the wound — there is still no mature product that truly repairs the mucosa.



Tight-junction protein network (illustration)

THE MECHANISM

Seal & Replenish

Mucosal cells are zipped together by tight-junction proteins (ZO-1). When the zipper opens, irritants slip in. Polimi's two active peptides restore it from both sides.

Peptide P1 • Seal

Upregulates ZO-1, re-zipping the tight junctions — sealing the gaps and blocking irritants.

Peptide P2 • Replenish

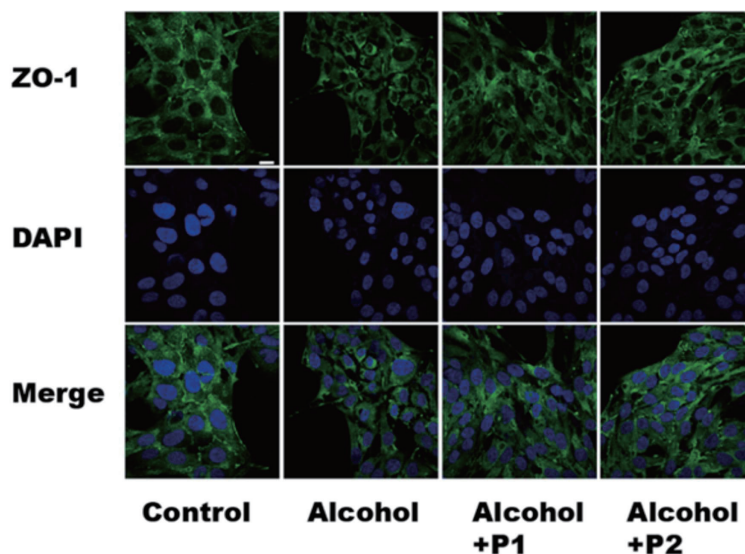
Rich in glycine + proline (55%, like collagen) — supplying the building blocks for epithelial regeneration.

Others «mask» the wound — Polimi repairs the mucosa.

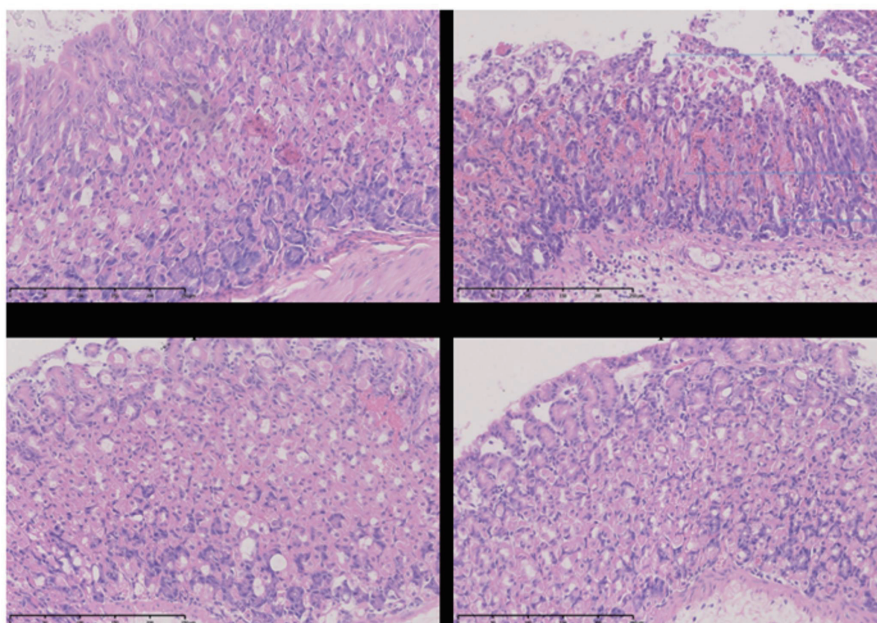
EVIDENCE • I

Visible Repair

From the molecule (immunofluorescence) to the tissue (histology) — the evidence converges: Polimi helps the mucosa truly heal.



ZO-1 immunofluorescence (green = ZO-1, blue = nuclei): after ethanol damage the signal breaks; with Polimi a continuous network is restored.

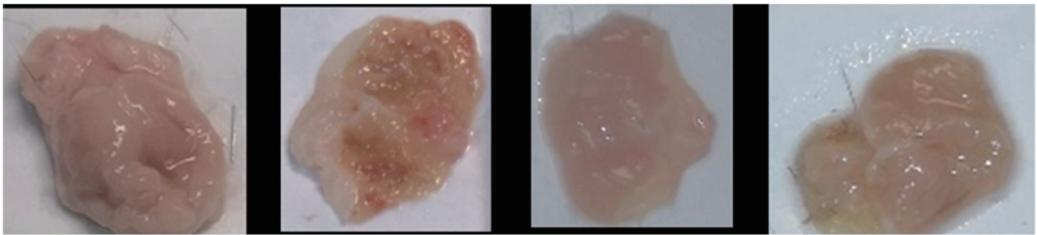


Gastric mucosa histology (HE): in the model — epithelial shedding and inflammation; with Polimi the structure is near-normal.

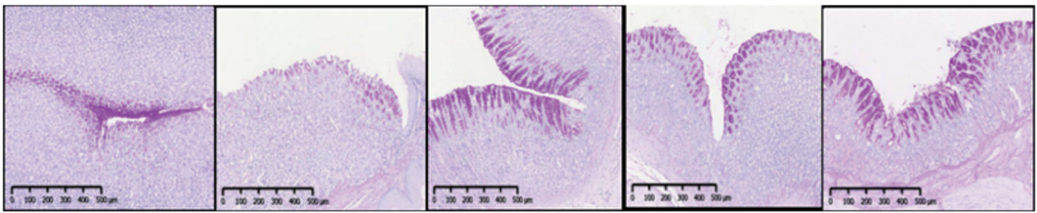
EVIDENCE • II

From Specimens to Data

From the organ (macro-specimens) to the data — the repair effect is evident.



Gastric macro-specimens (Blank／Model／P1／P2): the model shows diffuse hemorrhage and erosion; with P1/P2 — largely intact.



PAS staining: the mucosa with Polimi is stained magenta — integrity preserved.

89.4% vs 1.9%

GI-improvement effective rate

100% vs 40%

Effective rate in oral mucositis

78.9%

Ulcer inhibition in rats

ONE INGREDIENT

One ingredient, nine directions

The same core ability — «mucosal-barrier repair» — supports nine product directions. That is the value of a platform ingredient.

Oral

Ulcers, radiation mucositis

Esophagus

Radiation esophagitis (prevention)

Stomach

Ulcers, alcohol protection

Intestine

Enteritis, two-way regulation

Skin

Barrier, scab-free healing

Intimate

Mucosal care

Airways

Upper-airway inflammation

IBD

Crohn's disease (per patent)

Anti-metastasis

Tight-junction integrity

Why it matters: choosing Polimi gives you not one product but an expandable matrix — gummies for the mass market first, then gels and dressings for professional channels.

INTELLECTUAL PROPERTY

Triple Protection



Variety-rights certificate
Pulimi No.1 . CNA20181039.9



Process patent
CN 115521962 B



Peptide patent
ZL2023 1 1255096.1

Variety (to 2037)

Without the variety the raw material cannot be replicated — exclusivity from the source.

Process (to 2042)

Patented enzymatic hydrolysis + 10 kDa ultrafiltration.

Molecule (PCT)

Peptide patent + international PCT application.

Exclusive raw material, protection from copycats, long-term cover.



COOPERATION MODEL

Not raw material, but turnkey solutions

① You choose a product

One of 12 ready-made formats

② We customize

Your brand, flavour, spec, packaging

③ You sell

Under your brand, through your channels

For: raw-material distributors • contract manufacturers

GUMMIES

POLIMI

Gut-Care Gummies

POLIMI

A tasty daily ritual • 2-3 a day

A natural rice peptide in a chewy fruit gummy. Sugar-free and low-calorie — quietly-caring for your gut and mucosa.

- ✓ Low-molecular-weight peptide, easily absorbed
- ✓ Sugar-free, low-calorie
- ✓ Two flavours: peach / green grape

For whom

Office workers, young people with sensitive digestion

Specification

2.5 g × 60 gummies/jar

Content

Polimi peptide ≥ 100 mg/gummy

Expected effect

In 2-4 weeks: less bloating, more regular digestion, a more comfortable stomach.

Pitch line

«Not an ordinary gummy — gut care with rice peptide»

POLIMI

SOLID DRINK

Daily Peptide Drink

POLIMI

One cup, all-day comfort

An instant powder in stick packs — just add warm water. In the morning or after a feast, gentle care for the gastric and intestinal mucosa.

- ✓ Protects the stomach after alcohol & meals
- ✓ Pleasant rice taste, easy to carry
- ✓ Two flavours: classic / jujube

For whom

For those who work hard, drink often, or eat irregularly

Specification

5 g × 30 sticks/box

Content

Polimi peptide ≥ 800 mg/stick

Expected effect

After a feast: noticeably less burning;
after 2 weeks, lighter the next day.

Pitch line

«Alcohol hurts your stomach? A stick of rice peptide is like a protective film»

TABLETS



Peptide Lozenges

POLIMI

One lozenge — mouth & gut care

A lozenge format: the peptide is slowly released in the mouth, first caring for the oral mucosa, then the stomach.

- ✓ Dual care: mouth + gut
- ✓ Easy to suck on, freshens breath
- ✓ Two flavours: mint / lemon

For whom

For frequent travellers, those with bad breath or recurrent mouth ulcers

Specification

0.8g × 90 tablets/jar

Content

Polimi peptide $\geq$ 200 mg/tablet

Expected effect

In 1 week — a fresher mouth; in 2-4 weeks for the prone — fewer ulcers.

Pitch line

«Recurrent mouth ulcers? Suck on a peptide lozenge — it repairs the mucosa»

POLIMI

GUM

Mucosa-Repair Gum

POLIMI

Chew to refresh & repair

The peptide in a chewing gum: while chewing, it stays in contact with the oral mucosa longer — freshening breath and repairing.

- ✓ Prolonged release while chewing
- ✓ Freshens breath + repairs the mucosa
- ✓ Sugar-free, with xylitol

For whom

For those with bad breath, recurrent ulcers, or who talk a lot

Specification

1.5g × 30 pellets/pack

Content

Polimi peptide $\geq$ 100 mg/pellet

Expected effect

Instantly fresh breath; in 1-2 weeks a healthier mucosa, fewer ulcers.

Pitch line

«Chew — and your breath is fresh, your mucosa is repaired»

PROBIOTIC

Peptide Probiotic

POLIMI

The strongest prebiotic • live bacteria survive

Polimi peptide is both a prebiotic (food for good bacteria) and a restorer of the intestinal mucosa (soil for them). Live bacteria + food + soil — three in one. Human 16S rRNA sequencing confirms a more balanced microflora.

- ✓ Prebiotic + live bacteria + mucosa repair
- ✓ 16S sequencing confirms balance
- ✓ Two-way gut regulation

For whom

For those with alternating constipation/diarrhea, disrupted microflora, or after antibiotics

Specification

2 g × 30 sachets/box; ≥20 billion CFU

Content

Polimi peptide ≥ 800 mg/sachet

Expected effect

In 2-4 weeks: less bloating, more regular stool; 16S shows a more balanced microflora.

Pitch line

«Probiotics not working? Because the bacteria have nowhere to settle — give them the soil»

READY-TO-DRINK



Peptide Water

POLIMI

Open & drink, fresh molecules

No mixing needed — just open and drink. The peptide stays active in solution, refreshing and caring for the stomach on the go.

- ✓ Convenient, activity preserved
- ✓ Refreshing and stomach-caring
- ✓ Two flavours: lime / white peach

For whom

Athletes, after feasts, while travelling

Specification

100 ml × 10 bottles/box

Content

Polimi peptide $\geq$ 800 mg/bottle

Expected effect

After sport or a feast — a more comfortable stomach; with daily use, better gut condition in 2 weeks.

Pitch line

«Not an ordinary drink — water that cares for your stomach»

PASTE

Nourishing Peptide Paste

POLIMI

Classic formula + modern molecules

Polimi peptide with Chinese yam, poria and honey, simmered into a thick paste. One spoonful a day — gentle stomach care. Elegant packaging — a worthy gift.

- ✓ Classic paste + modern peptides
- ✓ Gentle nourishment, a worthy gift
- ✓ Giftjar / sticks to go

For whom

For the elderly, those with weak digestion, or as a gift for loved ones

Specification

260 g/jar (gift); 12 g × 20 sticks

Content

Polimi peptide $\geq$ 1000 mg/stick

Expected effect

In 2-4 weeks: better appetite, less heaviness after meals, a stronger stomach.

Pitch line

«A gift for parents: classic paste + modern peptide molecules»



LIFESTYLE

Repair, anytime

A sip of recovery for the body



ORAL PATCH

Oral Repair Patch

POLIMI

One patch — relief & repair

Apply on the ulcer — instant isolation and relief, while the peptide is gradually released to help the mucosa truly heal, with fewer recurrences.

- ✓ Relief + repair
- ✓ Faster healing, fewer recurrences
- ✓ Suitable for mucositis after radiotherapy

For whom

For those with recurrent mouth ulcers or mucositis after radio-/chemotherapy

Specification

12 patches/box (individually packed)

Content

Polimi peptide $\geq$ 100 mg/patch

Expected effect

In observation of oral mucositis after radiotherapy: 100% effective; VAS pain-score down ~58% in 5 days.

Pitch line

«Not just a numbing patch — it repairs the mucosa»

SKIN GEL

Barrier Repair Gel

POLIMI

A savior for sensitive skin

The peptide upregulates ZO-1 — closing the damaged skin barrier and locking in moisture. Redness after sun, seasonal sensitivity, post-acid — instant soothing.

- ✓ Repairs the barrier without irritation
- ✓ For sensitive skin, after sun & acids
- ✓ ZO-1 upregulation mechanism

For whom

Sensitive skin, damaged barrier, after cosmetic procedures

Specification

30 g/bottle (pump)

Content

Polimi peptide $\geq$ 100 mg/g

Expected effect

In 1-2 weeks: less redness & dryness; in 2-4 weeks: the barrier holds moisture, skin is more stable.

Pitch line

«Skin reacts to everything and won't hold moisture? The barrier is leaking — this gel closes it»

FEMININE GEL

Feminine Repair Gel

POLIMI

Gentle care for the intimate zone

A Class II medical device. The introduced gel/suppository delivers the peptide directly to the mucosa — gently repairing, maintaining a mildly acidic environment, without irritation or dependence.

- ✓ Introduced — directly to the mucosa
- ✓ Gentle, maintains a mildly acidic environment
- ✓ For daily care, postpartum, menopause

For whom

For women's daily care, postpartum, menopause

Specification

3 g × 7 applicators/box; suppositories 7 pcs

Content

Polimi peptide $\geq$ 500 mg/applicator

Expected effect

In 3-7 days: less dryness & discomfort; with a course after childbirth — better mucosal condition.

Pitch line

«A medical-grade introduced gel — gentle mucosal repair»

**LIQUID DRESSING**

Liquid Wound Dressing

POLIMI

One film — moist healing without scab

A Class II medical device. Sprayed on the wound, it forms a breathable moist film — the epithelium grows directly, without a hard scab or a visible scar.

- ✓ Moist healing, no scab, less scarring
- ✓ Class II medical device, for clinics
- ✓ Convenient spray

For whom

Superficial wounds, after cosmetic procedures, diabetic foot care

Specification

30 ml/bottle (spray)

Content

Polimi peptide ≥ 300 mg/ml

Expected effect

Superficial wounds heal faster, without a hard scab, more evenly.

Pitch line

«Don't let a wound dry into a scab — moist healing is faster and smoother»

ORAL SPRAY

Oral Care Spray

POLIMI

One spray — freshness & mucosa care

The peptide stays on the oral mucosa — freshening breath while gently repairing. Before a date, a meeting, or after a meal — one spray.

- ✓ Freshness + care in one
- ✓ Alcohol-free, for daily use
- ✓ Two flavours: mint/green tea

For whom

For those with bad breath, dry mouth, or who talk a lot

Specification

20 ml/bottle (portable)

Content

Polimi peptide $\geq$ 200 mg/g

Expected effect

Instantly fresh breath & moisture; with regular use, a healthier oral mucosa.

Pitch line

«One spray before a meeting — fresh breath, plus mucosa care»



POLIMI

POLIMI PEPTIDE

A good ingredient is the foundation of a successful product.

Natural rice source • Clear active molecules • Proven mechanism • Triple IP protection

12 ready-made formats: food, supplements, cosmetics, medical devices

We do not sell raw material alone — we provide turnkey solutions

Note: this catalogue is for internal business purposes; the products shown are realisable samples (virtual concepts). Formulas, specifications and packaging are customized per partner; effect descriptions are based on company research materials.



POLIMI PEPTIDE