

# NUTRIZYM® GR

## GASTRO-RESISTANT PANCREATIN THERAPY IN PANCREATIC INSUFFICIENCY

EFFICIENT DELIVERY FOR MAXIMUM ENZYME AVAILABILITY IN THE DUODENUM.

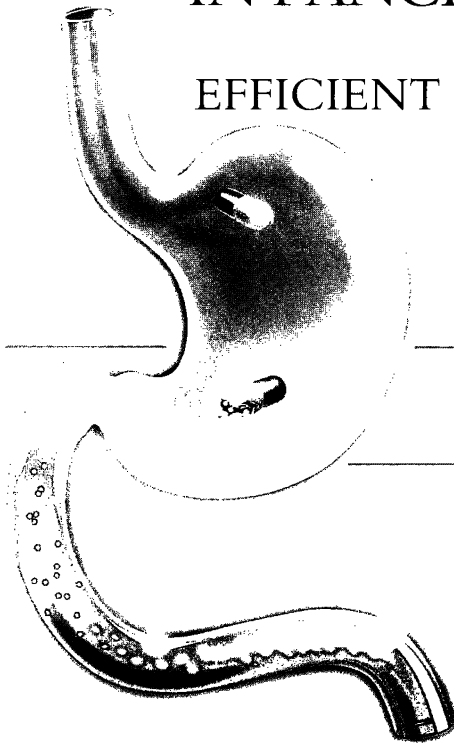
“The size of microspheres of pancreatin should be such that they empty at least as fast as the food they are intended to digest.”<sup>2</sup>

Gelatin capsule containing enteric coated acid resistant microspheres of Lipase, Amylase and Protease.

Capsule dissolves in gastric fluids; microspheres remain intact and disperse throughout chyme.

Enteric coating of microspheres starts to dissolve in duodenum at pH of about 5, releasing enzymes for digestion of food.

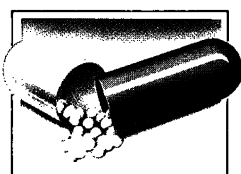
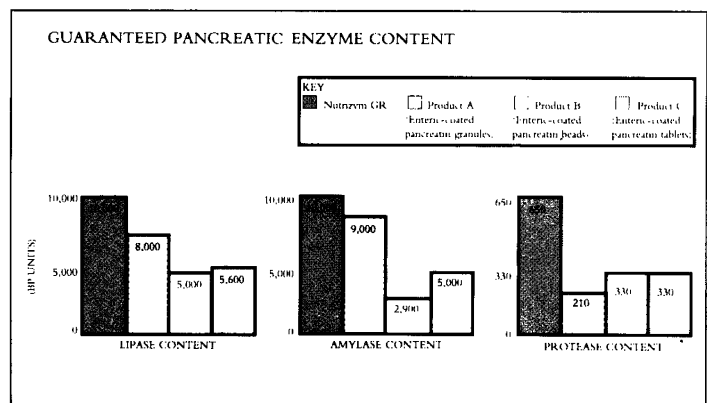
“Recent reports on both Cystic Fibrosis and Adult Chronic Pancreatitis have demonstrated that duodenal postprandial pH . . . is frequently less than pH 5.5 . . .”<sup>3</sup>



● **THE PANCREATIN MICROSPHERE PREPARATION WITH THE HIGHEST GUARANTEED POTENCY.<sup>1</sup>**

● **FEWER CAPSULES NEEDED**

At equal doses of lipase Nutrizym GR has been shown to result in equivalent lipid digestion and absorption with less than half as many capsules as required by preparation B<sup>4</sup> (see bar chart for enzyme concentrations).



# Nutrzym GR

Gastro-resistant pancreatin

Its strong point is  
its strength

REFERENCES 1) Pancreatin section, BNF.

2) Meyer JH et al, Gastroenterology, 1988, Vol. 94, No. 6, 1315-25.

3) Littlewood JM, Kelleher J, Walters MP & Johnson AW, J Paediatr. Gastroenterol. Nutr., 1988, Vol. 7, Suppl. 1, 522-529.

4) Dodge JA & Matthews EE (Data on file).

Further information is available on request from E. Merck Pharmaceuticals - a division of Merck Ltd. FREEPOST, Winchester Road, Four Marks, Alton Hamis GU34 5HB Telephone 0420 64011

**NUTRIZYM GR - Prescribing Information**

Each capsule contains enteric coated pellets of Pancreatin BP 300 mg with not less than the following activities:

Lipase 10,000 BPU, Protease 650 BPU, Amylase 10,000 BPU

**Use:** Fibrocystic disease of the pancreas, chronic pancreatitis, steatorrhoea and other pancreatic deficiency states.

**Dosage and Administration:** Usually 1 - 2 capsules with meals.

Capsules should be swallowed whole with water or contents sprinkled on food.

Pellets should not be chewed.

**Contra-indications:** Known hypersensitivity to porcine pancreatin.

**Precautions:** Hyperuricaemia and hyperuricosuria have been reported to occur in

cystic fibrosis patients; pancreatin extracts contain a very small amount of purine which might, in high dose, contribute to this condition.

**Use in Pregnancy:** Safety in pregnancy has not been established.

**Side effects:** Very rarely hypersensitivity reactions. High doses may cause buccal and perianal irritation, in rare cases amounting to inflammation.

**Pharmaceutical Precautions**

Store below 25°C in tightly closed containers.

**Package quantities**

Containers of 100 capsules (OP) Pl. 0493/0121;

NHS Price: £12.52 at February 1990

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**Micro**  
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# Europe's *new* Spirometers

**Micro Spirometer**

**FEV1 FVC**

**Micro Plus Spirometer**

**FEV1 FVC FER PEF**



## Features

The new Micro Medical Micro Spirometer is a portable, rugged, lightweight, and easy-to-use device. It is designed for use in the field and is ideal for use by Micro Medical's portable spirometry service. The Micro Plus Spirometer is a portable, rugged, lightweight, and easy-to-use device. It is designed for use in the field and is ideal for use by Micro Medical's portable spirometry service.

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Micro Medical  
10000  
10000

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Micro Medical  
10000  
10000