

**Genatosan : T.E.D. cough linctus : a new and ore effective expectorant.**

**Contributors**

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Wellcome Collection  
183 Euston Road  
London NW1 2BE UK  
T +44 (0)20 7611 8722  
E [library@wellcomecollection.org](mailto:library@wellcomecollection.org)  
<https://wellcomecollection.org>

GENATOSAN



T. E. D

COUGH LINCTUS

*A new and more  
effective expectorant*

# THE RELIEF OF COUGH

## T.E.D. Cough Linctus

Each teaspoonful of this cough linctus contains approximately  $\frac{1}{2}$  grain of aminophylline supplemented by 5 grains of sodium citrate and 6 minims of tincture of ipecacuanha in a palatable demulcent base. It provides excellent and safe expectorant and antispasmodic principles for the relief of the initial dry stage of cough due to any cause.

## Causes of Cough

A cough is a process whereby mucus secretion, which is irritating some part of the respiratory tract, is expelled. It is activated by a pharyngeal reflex which initiates the muscular efforts which come into play in order to get rid of the mucus. These efforts often require some aid and the rational method is to diminish the tenacity and viscosity of the bronchial secretion so that its expulsion is facilitated.

A typical cough passes through three stages, an initial dry phase, which is followed by a moist stage which then passes into a terminal dry stage.

## Expectorant Drugs in the Treatment of Cough

The main object in the treatment of cough with an expectorant drug is to hurry on the first dry phase so that by increased secretion of respiratory tract fluid the underlying cause of harsh dry cough is overcome. There is no point in giving an expectorant drug in the terminal dry phase of cough; in this stage a drug which depresses the cough reflex, e.g. Codeine, is useful, especially where coughing tends to interfere with sleep.

## Aminophylline in T.E.D. Cough Linctus

T.E.D. Cough Linctus contains theophylline-ethylenediamine. Theophylline is isomeric with theobromine and has long been known as a diuretic in cardiac oedema. When dissolved in ethylenediamine and evaporated to dryness, the resulting substance exhibits a more powerful action than theophylline alone.

Pharmacological investigation of theophylline showed that it exerted an antispasmodic effect on bronchial musculature. **Indeed, attacks of asthma which do not yield to injections of**

adrenaline can be cut short by intravenous injections of theophylline-ethylenediamine.

Theophylline-ethylenediamine has also been used in treatment of acute non-specific respiratory infections, commonly designated "atypical pneumonia". The distressing cough which results from this condition can be relieved by opening up the airway, an object which can be achieved by overcoming the spasm and dilating the small bronchi. Theophylline-ethylenediamine has been used orally and by intravenous injection in this condition with marked improvement within a few hours; the relief of cough and pain in the chest is striking.

Pharmacological experiments on animals have shown that theophylline-ethylenediamine causes a marked increase in the secretion of respiratory tract fluid.

These expectorant and antispasmodic properties of T.E.D. are particularly valuable in the initial dry stage of cough, and clinical experience amply supports this. The soothing sedative effect on the sensitized pharynx of the vehicle with which the active ingredients of the Linctus are compounded, is a fact which requires no emphasis.

#### **When to use T.E.D. Cough Linctus**

T.E.D. Cough Linctus should be used in the initial dry stage of cough due to any cause, e.g. the common cold, excessive smoking, bronchitis, etc.

T.E.D. is safe for it contains neither sedative nor scheduled poison and its pleasant flavour is appreciated by both adults and children.

#### *DOSAGE:*

*ADULTS:* One or two teaspoonfuls three times daily after food.

*CHILDREN:* Half to one teaspoonful three times daily after food.

*We would recommend that the following scheme is employed:-*

Children of 12 - One teaspoonful t.i.d. p.c.

Children of 6 - Half a teaspoonful t.i.d. p.c.

Under 6 years - A third of a teaspoonful only may be sufficient to ease the cough.

GENATOSAN



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COUGH LINCTUS

Manufactured in England by  
**GENATOSAN LIMITED**  
LOUGHBOROUGH, LEICESTERSHIRE