

## LCCPRP-1

### <sup>14</sup>C-Urea Capsules

#### (DIAGNOSTIC -FOR ORAL ADMINISTRATION)

<sup>14</sup>C-Urea Capsules are used for assisting nuclear medicine practitioners to perform, interpret and report the results of <sup>14</sup>C-urea breath test for the diagnosis of *Helicobacter pylori* infection. This test is based on the detection of the enzyme urease produced by *H. pylori*. Since urease is not present in normal human tissues, and since other urease-producing bacteria do not colonize the stomach, the presence of urease in the stomach can be equated with *H. pylori* infection.

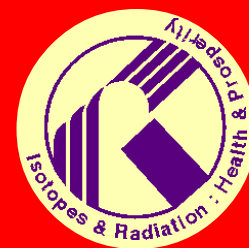
#### INDICATIONS

- *H. pylori* infection and chronic gastritis is well established, also a small percentage of *H. pylori*-positive patients develop peptic ulcer disease (PUD), essentially all patients with duodenal ulcers and about 80% of patients with other than non-steroidal anti-inflammatory drug (NSAID)-induced gastric ulcers are infected with *H. pylori* and hence, eradication of *H. pylori* markedly reduces ulcer recurrence
- To document *H. pylori* (Gram-negative spiral rod) eradication following anti-*H. pylori* therapy. Eradication should be confirmed no sooner than 1month, and preferably longer, after completion of therapy.

<b>Description</b>	: Gelatin capsules containing <sup>14</sup> C-urea capsules
<b>Radioactive contents</b>	: 1 μCi/capsule
<b>Radionuclidic purity</b>	: No other extraneous radionuclide is present
<b>Radiochemical purity</b>	: >95%
<b>Storage</b>	: Store below 30°C with a silica gel bag
<b>Shelf life</b>	: 6 months from the reference date
<b>Availability</b>	: Ex-stock
<b>Dosage and administration</b>	: Administer orally, by swallowing the capsule with water
<b>Available pack sizes</b>	: Pack of 2 and 5 capsules



Labeled Compounds laboratory, BRIT, Vashi, Navi Mumbai.



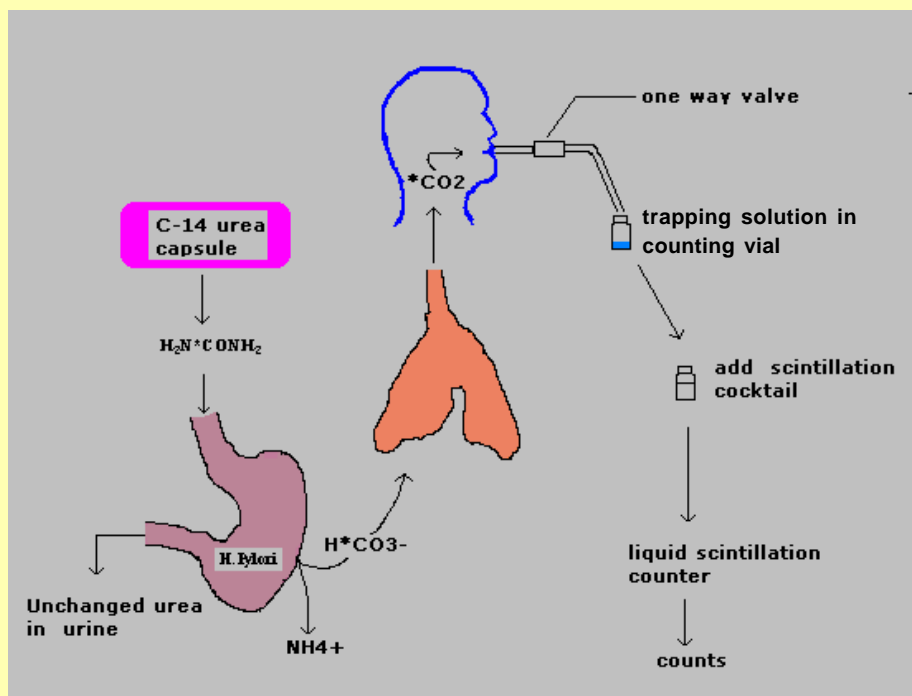
# BRIT

Code	Description	Activity
LCCRP-1	Gelatin capsules containing $^{14}\text{C}$ -urea	1 $\mu\text{Ci}$ /capsule

### Physical characteristics of $^{14}\text{C}$

Half life	5730 y
Decay mode	$\beta^-$
$E_{\beta^-}$ (%) & $E_{\beta^-}$ (Mean)	156 keV (max); 49 keV (mean)

### How $^{14}\text{C}$ -urea capsule works ?



$^{14}\text{C}$ -urea Capsules Production Facility



Oral Administration of Capsules



For placing the orders and further details please contact  
Customer Support Services Cell (CSSC)

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