



PRODiMED

CRITICAL CARE

COMBICATH®

Protected distal bronchial
specimen collection

Mini-broncheoalveolar
lavage

COMBICATH[®], for protected distal Bronchial specimen collection



Device:

- To be introduced via the angled connector of the endotracheal tube, tracheotomy cannula, or bronchoscope working channel (minimum diameter of 2 mm)
- Direct bacteriological examination/culture

Review of clinical data⁽¹⁾:

- Sensitivity of 100%
- Specificity of 82.2%

For order:



ADULT

COMBICATH[®] for protected distal bronchial specimen collection, with or without fibroscope:

20 units/box

Order Reference	Internal Reference	Outer catheter		Inner catheter	
		Øext. mm	Length cm	Øext. mm	Length cm
58228.19	7003278	1.9	75	1.3	79
58229.19	7003280	1.9	90	1.3	94

With two pairs of single-use scissors:

10 units/box

Order Reference	Internal Reference	Outer catheter		Inner catheter	
		Øext. mm	Length cm	Øext. mm	Length cm
58228.19C2	7003279	1.9	75	1.3	79
58229.19C2	7003281	1.9	90	1.3	94

Composition

- 1 outer catheter
- 1 inner catheter
- 1 spacer
- 1 water-soluble PEG plug
- 1 protective sheath



COMBICATH[®] ADULT:

With or without fibroscope
Ref : 58229.19



PEDIATRICS

COMBICATH[®] for protected distal bronchial specimen collection, without fibroscope:

20 units/box

Order Reference	Internal Reference	Outer catheter		Inner catheter	
		Øext. mm	Length cm	Øext. mm	Length cm
58223.19	7003275	1.9	35	1.0	38

With two pairs of single-use scissors:

10 units/box

Order Reference	Internal Reference	Outer catheter		Inner catheter	
		Øext. mm	Length cm	Øext. mm	Length cm
58223.19C2	7003276	1.9	75	1.0	38



COMBICATH[®] PEDIATRIC:

Without fibroscope
Ref 58223.19

(1) Pham LH, Brun-Buisson C, Legrand P, Rauss A, Verra F, Brochard L, et al. Diagnosis of nosocomial pneumonia in mechanically ventilated patients : comparison of a plugged telescoping catheter with the protected specimen brush. Am Rev Respir Dis 1991 ; 143 : 1055-61

specimen collection or mini-bronchoalveolar lavage

COMBICATH[®], for mini-bronchoalveolar lavage



Device:

- To be used with 20 ml of saline solution
- To be introduced via the angled connector of the endotracheal tube or tracheotomy cannula
- Direct cytological and bacteriological examinations/culture

Review of clinical data⁽²⁾:

- Sensitivity of 70% to 80%
- Specificity of 65% to 69%

Composition

- 1 outer catheter
- 1 inner catheter
- 1 spacer
- 1 water-soluble PEG plug
- 1 protective sheath

For order:



Assembled inner and outer catheters:

20 units/box

Order Reference	Internal Reference	Outer catheter		Inner catheter	
		Øext. mm	Length cm	Øext. mm	Length cm
58216.27	7003272	2.7	60	1.5	65
58124.40	7003269	4,0	85	2.0	90

With two pairs of single-use scissors:

10 units/box

Order Reference	Internal Reference	Outer catheter		Inner catheter	
		Øext. mm	Length cm	Øext. mm	Length cm
58216.27C2	7003273	2.7	60	1.5	65



COMBICATH[®] ADULT:

Without fibrescope

Ref : 58124.40



Peelable packaging



Polyethylene



Radiopaque



Polyéthylène Glycol

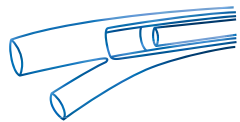
(2) Gauvin, France et al. Reproducibility of Blind Protected Bronchoalveolar Lavage in Mechanically Ventilated Children. American Journal of Respiratory and Critical Care Medicine. 2002, 165. 1618-23.

COMBICATH® Method for use

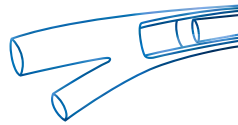
Practical and easy to use



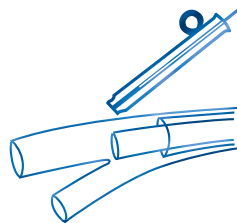
1 Usual infection control precautions (*sterile gloves, mask and cap, single-use protective clothing*)



2 Insert the Combicath® in closed position until you feel it stop (*min. fibrescope ø 2 mm*)



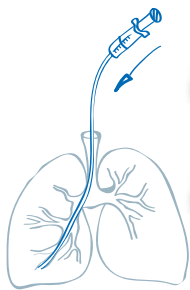
3 Pull back the outer sheath (by 3 cm), according to the distance markings on the outer catheter (only in models used for mini-bronchoalveolar lavage)



4 Remove the spacer to allow movement in the inner catheter

5 Extend the inner catheter to expel the plug

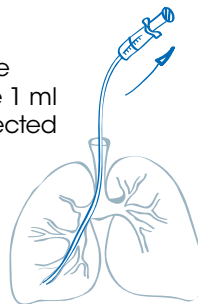
MINI-BRONCHOALVEOLAR LAVAGE TECHNIQUE



6 Push the inner catheter through until it reaches the guard and inject 20 ml of saline solution.

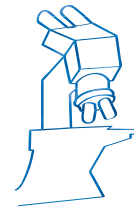
7 Re-aspirate the mini-lavage saline solution and reserve 1 ml to 3 ml of the solution collected for analysis.

8 Remove, close and label the kit by the patient's bedside, and take the specimen to the laboratory as quickly as possible (with the lab form duly completed)



CULTURE:

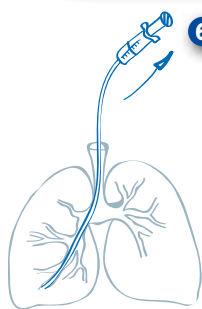
Diagnostic threshold for cultures: $\geq 10^4$ CFU/ml



CYTOCENTRIFUGATION AND DIRECT MICROSCOPIC EXAMINATION:

Gram staining to show bacteria and for initial guidance on therapy antibiotic

PROTECTED DISTAL BRONCHIAL SPECIMEN COLLECTION TECHNIQUE

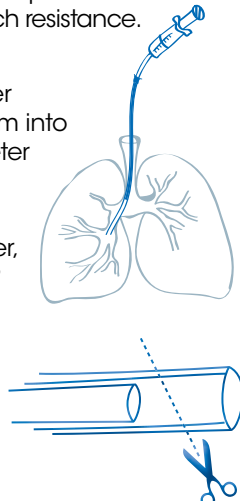


6 Push the catheter through until it reaches the guard and, using the 20 ml syringe, perform two or three brief aspirations until the plunger comes free of the barrel, so as not to re-inject air into the bronchi (get rid of any air once the catheter is disconnected from the syringe). NB: Aspiration should not present too much resistance.

7 Retract the inner catheter by 3 cm into the outer catheter

8 Next, retract the inner catheter by 10 cm into the outer catheter, remove the whole Combicath® from the catheter and close the orifice.

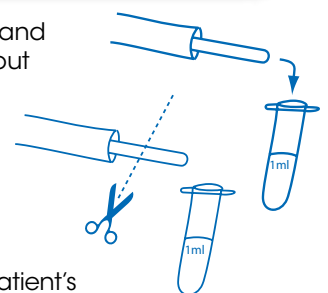
9 With the first pair of sterile scissors, cut off the end of the outer catheter (around 5 cm)



10 Push the inner catheter through and flush with 1 ml of saline solution out into the sterile collection tube

11 Next, cut the end of the inner catheter into the tube using the second pair of sterile scissors

12 Close and label the kit by the patient's bedside, and take the specimen to the laboratory as quickly as possible (with the lab form duly completed)



CULTURE:

Diagnostic threshold for cultures: $\geq 10^4$ CFU/ml



CYTOCENTRIFUGATION AND DIRECT MICROSCOPIC EXAMINATION:

Gram staining to show bacteria and for initial guidance on therapy antibiotic

Benefits of Combicath®

Numerous benefits for the user, the patient and the diagnosis



For the user and the patient

- ✓ Quick and simple technique (procedure lasts 4 to 8 minutes).
- ✓ Minimally invasive for patient comfort.
- ✓ Inner, graduated catheter to monitor progress.
- ✓ With or without fibroscope.
- ✓ Sample may be taken dry or by mini-lavage (20 ml).
- ✓ Three references with two pairs of single-use sterile scissors to facilitate use.
- ✓ Easily replicable by all hospital staff.

For the diagnosis

- ✓ Reliable for the diagnosis of lung diseases in ventilated patients.
- ✓ Good sensitivity and specificity rates.
- ✓ Designed to prevent oropharyngeal contamination of the specimen:
 - Combicath® is a dual-lumen catheter equipped with a water-soluble PEG plug.
 - The inner catheter is not contaminated while passing through the oropharynx and remains sterile until its arrival at the site of collection.
 - Once the PEG (polyethylene glycol) plug is removed, the user can easily collect a sample without contamination.
- ✓ Immediate examination for initial guidance on antibiotic therapy.



PRODIMED

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Class IIa, sterile medical devices - CE0459 - Manufacturer: PRODIMED
Carefully read the instructions. Use before the expiry date indicated on the wrapping.
Do not use if the wrapping or primary packaging is damaged.
Peelable packaging - Latex-free - Radiopaque - Single-use medical devices.

Combicath leaflet - 02/21 - SAP : 3000390
This document is intended solely for the use of healthcare professionals.