

Asahi**KASEI**

P L A S O R B A™

**BR-350(L)**

**Plasmaperfusion Column**



***Selective adsorption of bilirubin  
and bile acid from plasma***

**ASAHI KASEI MEDICAL CO., LTD.**  
A Pioneer in Blood Purification

# Selective adsorption of bilirubin from plasma

## Indication

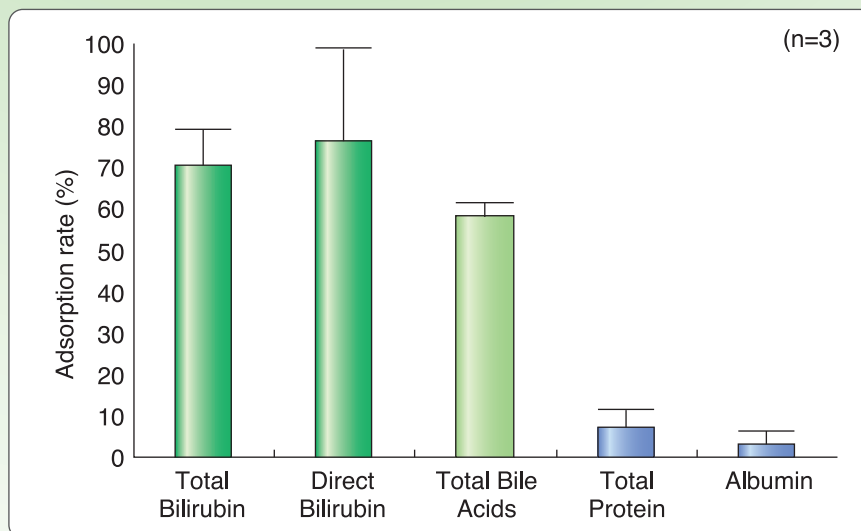
### Liver diseases

(especially effective for Fulminant hepatitis, Postoperative hepatic failure, Primary biliary cirrhosis and Hyperbilirubinemia)

## Features of PLASORBA BR-350(L)

- Selective adsorption of bilirubin and bile acid from plasma.
- No need for the replacement of plasma, minimizing the risk of infection with hepatitis, AIDS, etc.
- Applicable to patients with protein allergy.

### Adsorption rate of plasma components (*in vitro*)



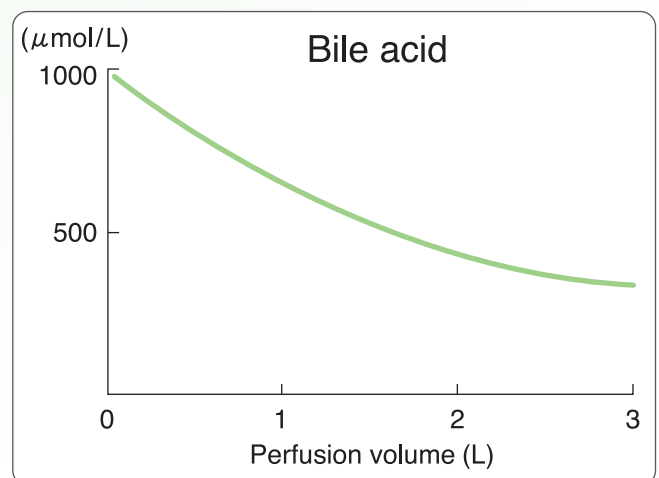
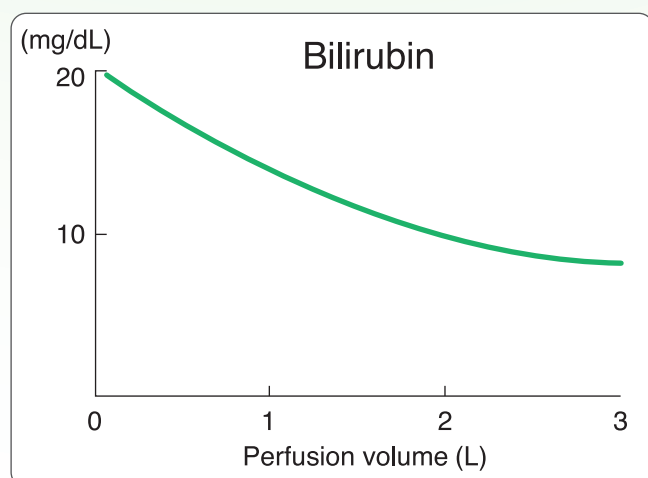
#### Experimental conditions

Perfusion method: One-pass operation with small scale column (1/350)  
Sample : Human plasma 2.4L (Equivalent volume)  
Flow rate : 20mL/min (Equivalent rate)

Plasma sample was collected at the column outlet point when 2.4L (equivalent volume) plasma was treated.

In-house data

### Changes in bilirubin and bile acid concentration by plasma perfusion (*in vitro*)



#### Experimental conditions

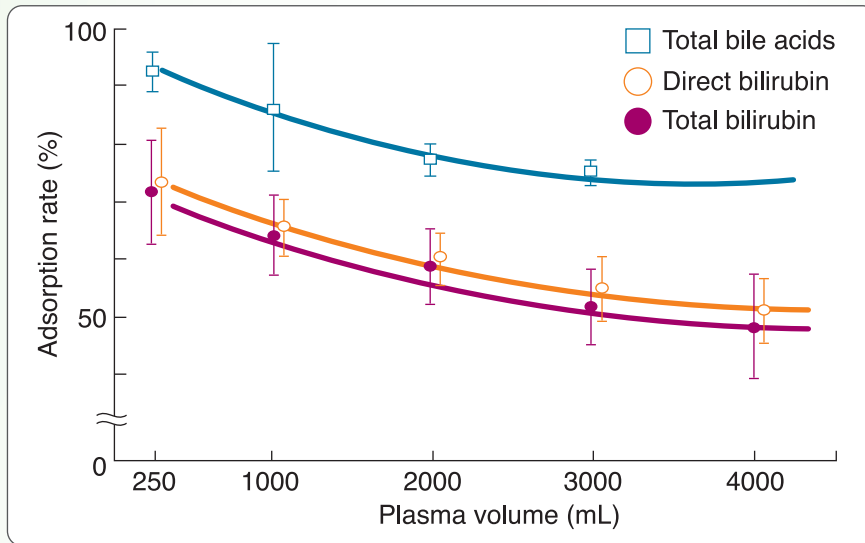
Sample : Bovine plasma 2L  
(5 units/mL heparin, 20 mg/dL bilirubin and 1000 μmol/L bile acid added bovine plasma)  
Temperature : 37°C  
Perfusion rate : 20mL/min

In-house data

# ubirin and bile acid lasma for efficient liver support.

## Clinical Course

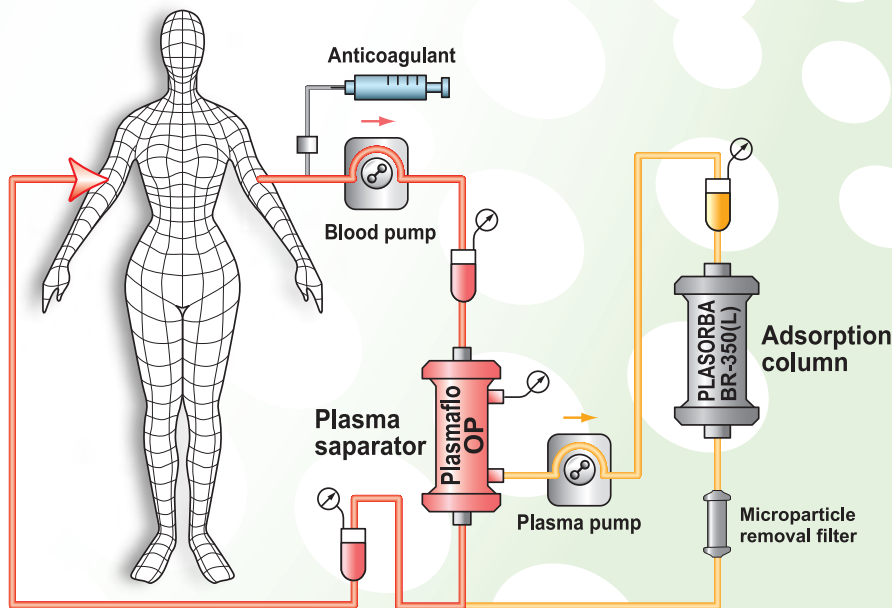
### Changes of adsorption rate (in vivo)



Patients : n=6  
Total treatments : 29 times

First Department of Surgery, Okayama University, Japan

## Circuit Diagram



## Specifications

Adsorption Column	Adsorbent	Material	Styrene divinylbenzene copolymer
		Volume	350mL
	Priming Volume		130mL
	Container	Material	Polypropylene
	Weight		600g
	Sterilization		Moist heat
Microparticle Removal Filter	Filter	Material	Polyethylene (coated with ethylene-vinylalcohol copolymer)
		Area	0.07m <sup>2</sup>
	Container	Material	Polyvinyl chloride
	Priming Volume		30mL
	Sterilization		Ethylene oxide

## Caution

The PLASORBA BR-350 is intended for the treatment of plasma. Never run whole blood through the PLASORBA BR-350. Thrombocytes cannot pass through the PLASORBA BR-350 and may cause blockage. Do not use the PLASORBA BR-350 with plasma containing a large amount of thrombocytes.

## References

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