

5PSQ-061 L01 - Cytostatics





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Stability of carboplatin infusion solutions used in desensitisation protocol

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INTRODUCTION: Carboplatin desensitization protocols allow the continuation of treatment in patients who have presented hypersensitivity reactions by gradually re-introducing small amounts of the drug up to full therapeutic doses from 3 solutions:

Solutions	Dose	Volume	Concentration	.5mg/mL agencia española de
Solution A	5 mg	250mL	0.02mg/inI	GOBIERNO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD agencia española de medicamentos y productos sanitarios
Solution B	50mg	250mL	0.20mg/mL	THE PROBLEM: There is a lack of
Solution C	500mg	250mL	2.00mg/mL	stability data for carboplatin solutions diluted below 0.5 mg/mL.
Standard carboplatin desensitization protocol using a total dose of 500 mg				

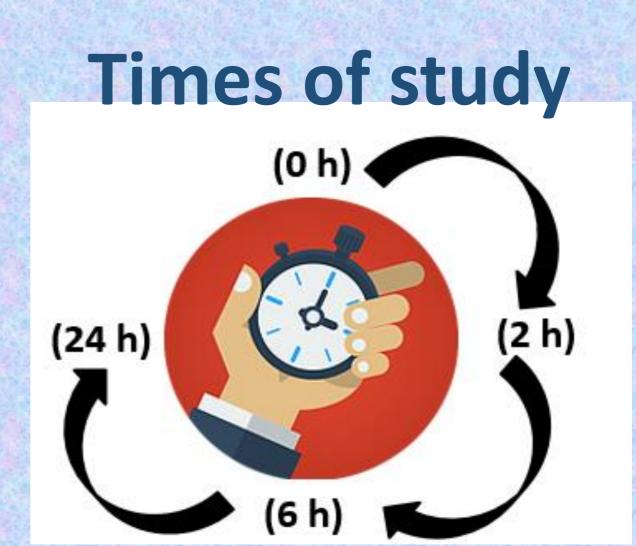
PURPOSE: To determine the stability of carboplatin infusion solutions diluted to 0.2mg/mL in 250ml of 5% dextrose and stored in polypropylene infusion bags.

MATERIALS AND METHODS:



Agilent 1200 C18, 4,6x15-5mm MeOH/H2O (2/98) 1ml/min 230nm





Storage light protected

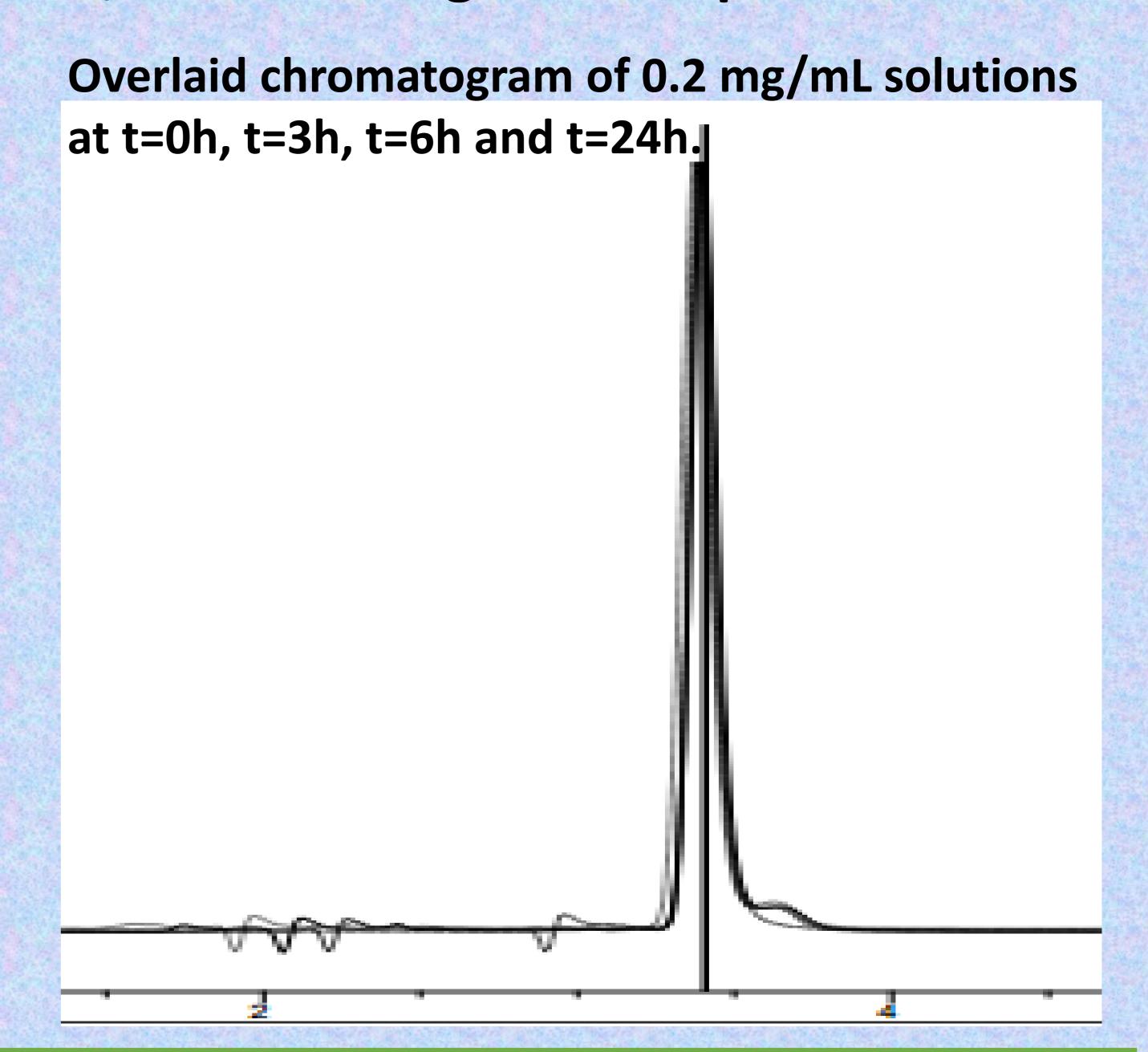
VALIDATION of ANALITICAL PROCEDURE

linearity, accuracy, repeatability, LOD, LOQ and degradation products

RESULTS:

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Samples	Time of storage	Remaining Concentration (mean±SD %)
	T=0 h	100±1.6
0.2 mg/mL	T=3 h	98.27±0.2
	T=6 h	97.3±2.5
	T=24 h	101.5±0.9

Stability was defined as retention of 95%-105% of the initial carboplatin concentration



CONCLUSIONS: Carboplatin 0.2mg/ml solution is stable for 24 hours at room temperature in 5% dextrose polypropylene infusion bags and it can be prepare in advance.