Table of Contents

Ac	knowledgement	i
Abstract		ii
Introduction		1
Ma	aterials and Methods	
	Materials	4
	Methods	
1.	Construction of expression vector for human wild type TTR	
	and its variants	5
2.	Construction of human TTR variants	5
3.	Pichia transformation	
	3.1 by an electroporation	6
	3.2 by PEG1000 transformation method	6
4.	Recombinant TTRs synthesis	
	4.1 Screening for Mut ⁺ transformants	7
	4.2 Induction for gene expression of recombinant Pichia clones	7
5.	Time course of TTR gene expression in yeast	7
6.	Media selection .	8
7.	Purification of recombinant human TTRs from yeast culture	
	7.1 by affinity chromatography	8
	7.2 by preparative gel electrophoresis	8
8.	Determination of the mass of the TTR tetramer by gel filtration	8
9.	Measurement of the thyroid hormone binding affinities of	
	recombinant human TTR and analysis of binding data	9
10.	Western analysis	9
11. Expression scale up		9
12. SDS-PAGE		10
13.	13. Preparation of L[125I]-thyroxine	
14. Amyloid formation		10
15.	Congo red binding	10
16. Preparation of competent cells and DNA transformation		10

Conclusion 20	
References 21	

Paculte and Discussion