GETPEPTIDES.AE

Pen peptide certificate of analysis (CoA)

Product:	**Thymogen**		
Source:	Hybrid synthesis (recombinant using peptide secretion system and chemical synthesis)		
Intended use:	For stability, viability and activity testing only.		
Order number:		**Lot:**	25AUG25TMG
Production:	08/2025	**Expiry:**	08/2027
Formulation:	0.2 µm-filtered solution in 20mM glycine, 200mM Mannitol, 20mM NaH_2PO_4, pH 7.4; m-cresol 1 mg/ml, glycerol 2 mg/ml (when liquid)		
Protein/peptide concentration per 3 ml cartridge:	30 mg		

Release Testing:	**Specification**	**Lot Result**
Purity:	≥ 97%	> 98%
Identity:	Complies	Complies
Sterility:	Sterile	Complies
Endotoxin level:	< 10 EU/mg	< 0.20 EU/mg
Host-cell DNA	≤ 200 ng/mg	Complies (1.1 ng/mg)

Activity was determined using in vitro test.
Purity was determined by HPLC.
Identity was confirmed by end-of-production DNA sequencing and N-terminal protein sequencing.
Sterility test of vialed product was performed according to Eur.Pharm. (Inoculation method).
Endotoxin was determined using the gel clot assay according to Eur.Pharm.
Host-cell DNA/RNA was determined using fluorimetric assay (if applicable).

Handling Instructions:

General usage: Open cap, clean the rubber stopper with disinfectant napkin or other cleaning disinfection method / material. Puncture rubber stopper with sterile needle by screwing needle on. Remove the plastic protective cover. Set the index to physician prescribed position, remove the pink plastic cover and let out the air from the cartridge by several button presses into the air. Put on the plastic protective cover back.

Using liquid product: Liquid products are ready to use according to physician recommendations.

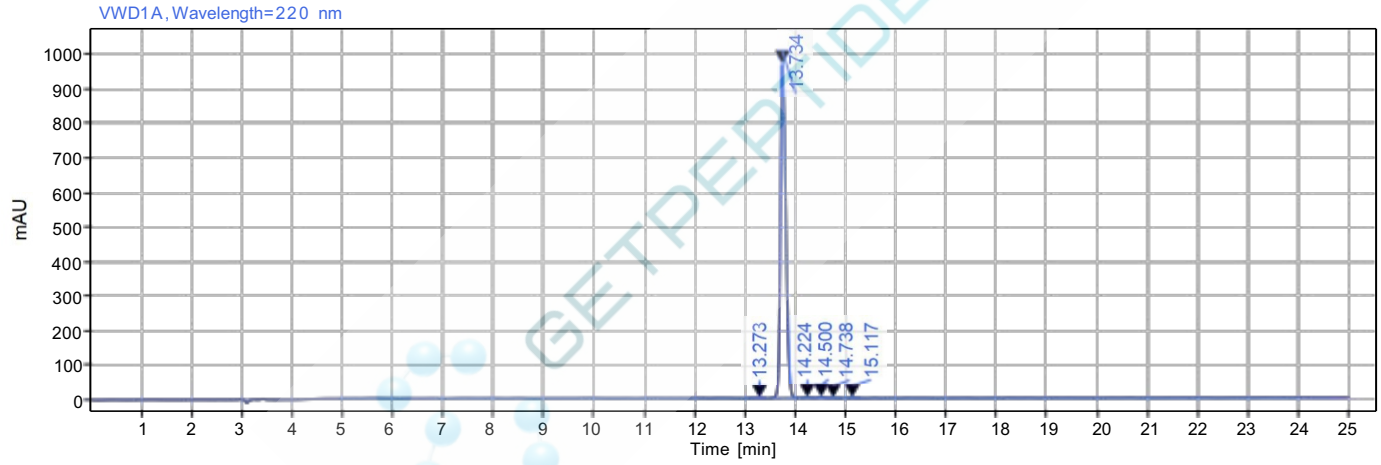
Storage and stability: Store material at +2 - +8^{0}C. **Do not freeze!**

Quality Statement:

This product is manufactured, tested and realized in compliance with the relevant GMP-guidelines. No animal- or human-derived materials were used during manufacturing. USP chapter <1043> “ancillary materials for cell, gene, and tissue-engineered product” has been considered in the design of this product.

Single Injection Report

Data file:	2025-08-25 12-23-24+08-00-13.dx		
Sequence Name:	Thymogen	**Project Name:**	A
Sample name:	Thymogen	**Operator:**	System
Instrument:	Agilent1260	**Injection date:**	2025-08-25 12:24:06+08:00
Inj. volume:	2.000	**Location:**	P2-B5
Acq. method:	10-35.amx	**Type:**	Sample
Processing method:	GC_LC _DefaultMethod.pmx	**Sample amount:**	0.00
Manually modified:	Manual Integration		



Signal: VWD1A,Wavelength=220 nm

RT [min]	Type	Width [min]	Area	Height	Area%	Name
13.273	MM m	0.42	12.86	0.88	0.18	
13.734	MM m	0.56	7274.10	968.30	99.23	
14.224	MM m	0.27	11.15	1.61	0.15	
14.500	MM m	0.27	20.24	2.74	0.28	
14.738	MM m	0.26	2.76	0.40	0.04	
15.117	MM m	0.30	9.40	1.39	0.13	
		Sum	**7330.52**			

MASS SPECTROMETRY REPORT

Sample Description	po	Instrument	Waters ZQ2000		
Analyzed date:	2025-08-25	Probe:	ESI	Probe Bias:	＋4.5kv
Analyst:	PY	Nebulizer Gas Flow:	1.5L/min	Detector:	1.5kv
Sample:	Thymogen	CDL:	-20.0v	T. Flow:	0.2ml/min
M.W.:	333.34	CDL Temp.:	250 ºC	B. Conc.:	50%H2O/50%ACN
Lot. No.:	20250825	Block Temp.:	200 ºC		