

# CERTIFICATE OF ANALYSIS

## HUMAN TISSUE PROTEIN

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Human Thyroglobulin (Tg)

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<b>Code No.</b>	<b>P128-0</b>
<b>Grade</b>	<b>Highly Pure</b>
<b>Lot No.</b>	

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### RECEIVER INFORMATION

<b>Expiry Date</b>	
<b>Manufacture Date</b>	
<b>Storage Temperature</b>	Store at 2-8°C.
<b>Storage Notes</b>	Do not freeze.
<b>Shipping Notes</b>	Cool pack.

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### PRODUCT INFORMATION

<b>Source</b>	Human thyroid glands.
<b>Nominal Purity</b>	>98%
<b>Presentation</b>	Single homogenous batch, 0.2µm filtered, supplied lyophilised from 0.02M NH <sub>4</sub> HCO <sub>3</sub> solution. May contain traces of buffer salts.
<b>Reconstitution Advice</b>	Use of phosphate buffer, pH >7.0 containing 0.15M NaCl is recommended. To ensure full product recovery, it is advised that reconstitution is performed directly into supplied vial incorporating further washings with the reconstitution buffer.
<b>Recovery</b>	In order to meet our customer needs, it should be noted that there is normally a dispensing overage allowance and the product recovery may, therefore, be greater than expected.
<b>Additional Information</b>	Prepared in accordance with BBI Solutions PSBR Doc No: 0554

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### HEALTH AND SAFETY

<b>Application</b>	For Research and Manufacturing Only.
<b>Infectious Disease Tests</b>	

Starting material tested using FDA approved methods for:	Result
HIV 1 & 2 antibodies	
Hepatitis B Surface Antigen	
Hepatitis C virus antibodies	
HIV-1/HBV/HCV NAT	
Syphilis	

<b>Precaution</b>	No test can guarantee the absence of an infectious agent. Please handle as potentially hazardous.
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<b>Material Safety</b>	For further information and technical details, please download a Safety Data Sheet at <a href="http://www.bbisolutions.com">www.bbisolutions.com</a> or contact your BBI Account Manager.
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**ANALYSIS**

TESTS	SPECIFICATIONS	RESULTS
<b><u>Determination Method</u></b>		
<b>Protein concentration by optical density at 280nm using</b> $E_{0.1\%}^{1\text{cm}} = 1.04$	<b>&gt; 1 mg/ml.</b>	<b>mg/ml.</b>
Polyacrylamide Gel Electrophoresis.	To show one band corresponding to Tg molecular weight at 660kD. Under certain conditions sub-unit Tg can be observed at 330kD.	Pass/Fail.
Cellulose Acetate Electrophoresis.	To show one major band with $\alpha_1$ electrophoretic mobility.	Pass/Fail.
Thyroglobulin content by Radial Immunodiffusion (RID) assay vs. Dako antisera.	To confirm identity and dispensing concentration.	Pass/Fail.
Total protein concentration as determined by Lowry method.	To confirm optical density result.	Pass/Fail.
IgG by Radial Immunodiffusion.	Not detectable.	Pass/Fail.
Bioburden.	< 100 CFU/ml.	Pass/Fail.
<b>Physical Appearance</b>	Off-White lyophilised solid.	
<b>Purity</b>	Defined as a major band on coomassie stained 4-20% PAGE.	

<b>Name:</b>		<b>Position:</b>	
<b>Signed:</b>		<b>Date:</b>	