

PRODUCT SPECIFICATION							
RECOMBINANT PROTEINS							
PRODUCT							
Specification	HIV-1 gp41	HIV-2 gp36	HCV CORE	NS3	NS4	NS5	PROTEIN - A
Source	<i>E.coli</i> derived	<i>E.coli</i> derived	<i>E.coli</i> derived	<i>E.coli</i> derived	<i>E.coli</i> derived	<i>E.coli</i> derived	<i>E.coli</i> derived
Description	Recombinant gp41 of HIV-1. gp41 sequence is cloned in <i>E.coli</i> expression system.	Recombinant gp36 HIV-2. gp36 sequence is cloned in <i>E.coli</i> expression system.	Recombinant core protein of Hepatitis C virus. HCV sequence from Core region cloned into <i>E.coli</i> expression system.	Recombinant NS3 protein of Hepatitis C virus. HCV sequence from NS3 region cloned into <i>E.coli</i> expression system.	Recombinant NS4 protein of Hepatitis C virus. HCV sequence from NS4 region cloned into <i>E.coli</i> expression system.	Recombinant NS5 protein of Hepatitis C virus. HCV sequence from NS5 region cloned into <i>E.coli</i> expression system.	Recombinant Protein-A of strephalo cocci. Proteion-A specific sequence is cloned in <i>E.coli</i> vector.
Molecular Weight	14kDa with 128 amino acids	38 kDa with 345 amino acids	23kDa with 210 amino acids	37kDa with 374 amino acids	30kDa with 256 amino acids	46kDa with 374 amino acids	30kDa with 270 amino acids
Specificity	Immunoreactive with sera of HIV-1 infected individuals	Immunoreactive with sera of HIV-2 infected individuals	Immunoreactive with sera of Hepatitis C virus infected individuals	Immunoreactive with sera of Hepatitis C virus infected individuals	Immunoreactive with sera of Hepatitis C virus infected individuals	Immunoreactive with sera of Hepatitis C virus infected individuals	Reactive with IgG from several species
Application	Reacts with antibodies to HIV-1 as determined by ELISA/Western Blot/Spot Test/Card Test (Lateral Flow)	Reacts with antibodies to HIV-2 as determined by ELISA/Western blot /Spot Test/Card Test (Lateral Flow)	Reacts with antibodies to HCV Core as determined by ELISA/Western Blot Slot Blot and Rapid tests	Used as Antigen to detect HCV antibodies in sera by ELISA/Western Blot Slot Blot and RAPID tests	Used as Antigen to detect HCV antibodies in sera by ELISA/Western Blot Slot Blot and RAPID tests	Used as Antigen to detect HCV antibodies in sera by ELISA/Western Blot Slot Blot and RAPID tests	Used as HRP conjugator CGC in detection of HIV/ HCV antibodies by ELISA,Western Blot, Dot Blot and RAPID tests
Purification Method	Nickel Chelate affinity Chromatography	Nickel Chelate affinity Chromatography	Nickel Chelate affinity Chromatography	Nickel Chelate affinity Chromatography	Nickel Chelate affinity Chromatography	Nickel Chelate affinity Chromatography	IgG agrose affinity Chromatography
Purity	The Protein is >98% Pure as determined by SDS-PAGE	The Protein is >98% Pure as determined by SDS-PAGE	The Protein is >98% Pure as determined by SDS-PAGE	The Protein is >98% Pure as determined by SDS-PAGE	The Protein is >98% Pure as determined by SDS-PAGE	The Protein is >98% Pure as determined by 12% SDS-PAGE	The Protein is >98% Pure as determined by SDS-PAGE
Concentration	1 mg/ml	1 mg/ml	1 mg/ml	1 mg/ml	1 mg/ml	1 mg/ml	1 mg/ml
Medium	6M Urea, 50mM Tris pH 7.9	6M Urea, 50mM Tris. pH 7.9	6M Urea, 50mM Tris. pH 7.9	6M Urea, 50mM Tris. pH 7.9	Tris Buffer (pH 8.0) with b-Mercapto ethanol	Tris Buffer (pH 8.0) with b-Mercapto ethanol	50mM Tris. pH 7.9
Storage	Short term 2-8°C; Long term 20°C	Short term 2-8°C; Long term 20°C	Short term 2-8°C; Long term 20°C	Short term 2-8°C; Long term 20°C	Short term 2-8°C; Long term 20°C	Short term 2-8°C; Long term 20°C	Short term 2-8°C; Long term 20°C



BHAT BIO - TECH INDIA (P) LTD.
 E-mail : bhatbiotech@vsnl.net www.bhatbiotech.com



An ISO 9001:2000 and ISO 13485:2003 Company

BHAT BIO STABLE TMB

A Stable Liquid TMB Substrate for HRP

- Single stable substrate system: easier than two reagent system
- Ready-to-use solution
- No preparation of buffers required
- Stable for 1 year at 4°C (8 weeks at room temperature) and 24 month at -20°C
- The true HRP chromogenic substrate which can be used in EIA automated instruments
- The lowest assay to assay variability

- **No colour phase separation (Blue-Green): uniform blue color**
- **Non-carcinogenic**
- **Hydrolyzed product absorbs strongly at 650nm with a very high extinction coefficient or at 450nm with 2M sulfuric acid**

The primary requirement of a substrate is to provide a sensitive detection method for enzymes in the presence of a conjugate. The most commonly used chromogenic substrates become strong in color upon degradation. An ideal substrate should render completely soluble products with high extinction coefficient (i.e. dense color per unit degraded).

Bhat Bio-Tech India (P) Ltd has purchased the latest technology and formulation from USA for **STABLE TMB** substrate as a single, stabilized, chromogenic, ready-to-use substrate reagent of 3,3',5,5'-Tetramethylbenzidine (TMB). **STABLE TMB** is a non-carcinogenic reagent for the detection of horseradish peroxidase (HRP) activity which has been known to be more sensitive than OPD. **STABLE TMB** contains both TMB and hydrogen peroxide (H₂O₂) in a single bottle with high sensitivity and ability to give lower background. In the presence of HRP, the substrate develops a blue color directly proportional to the enzymatic activity. **STABLE TMB** is stabilized with proprietary reagents and is stable for one year when stored at 4°C with no loss of reactivity. It also avoids conventional way of mixing two reagents prior to assay. **STABLE TMB** substrate requires no additional buffers, weighing or mixing.

Product	Cat. No.	Size
STABLE TMB Substrate for HRP	STS 100	100 ml
	STS 500	500 ml
	STS 1000	1000 ml

Bigger packs are available on request.

BHAT BIO-TECH INDIA (P) LTD

No.11-A, 4th Cross, Veerasandra Indl. Area Electronics City, Bangalore – 560 100

Phone: 080-2783 3620, 2783 3473; Fax: 080-2783 3621

Email: bhatbiotech@vsnl.com Website: www.bhatbiotech.com
