

<b>ABX Pentra AST CP</b>	<b>A91A00550CEN</b>	<b>30/06/2008</b>
--------------------------	---------------------	-------------------

<b>1. Product and company identification</b>	
<b>1.1. Identification of the product</b>	
Product name:	ABX Pentra AST CP
Product code:	Ref. HORIBA ABX: A11A01629
<b>1.2. Use of the product</b>	
Diagnostic reagent for quantitative in-vitro determination of Aspartate AminoTransferase (AST) in serum or plasma.	
<b>1.3. Company identification</b>	
	HORIBA ABX - Rue du Caducée - Parc Euromédecine 34184 MONTPELLIER CEDEX 4 - FRANCE Tel: (33) 4 67 14 15 16 Fax: (33) 4 67 14 15 17 Email: documentation@fr.abx.fr
<b>1.4. Emergency phone number</b>	
	Contact the nearest first-aid station

<b>2. Hazards identification</b>	
<b>Dangerous preparation according to 67/548/EEC - 99/45/EEC (Yes/No): No</b>	
Most important hazards:	Dangerous properties cannot be excluded. However, risks are not to be expected when the product is handled by qualified and authorized personnel with the necessary precautions for chemicals/diagnostic reagents.
Specific risks	None determined.

<b>3. Composition/information on ingredients</b>					
<b>3.1. Description of the kit</b>					
	<b>REAGENT 1</b> Bi-reagent cassette <b>REAGENT 1</b> 1 x 56 ml : Tris (110 mmol/l), L-aspartate (340 mmol/l), Malate Dehydrogenase (≥ 900 U/l), Lactate Dehydrogenase (≥ 900 U/l) <b>REAGENT 2</b> 1 x 14 ml : 2-oxoglutarate (85 mmol/l), NADH (1.09 mmol/l)				
<b>3.2. Hazardous ingredients (name, concentration)</b>					
CAS N.	Name	Concentration	Symbol	Risk	Registration number
26628-22-8	<b>REAGENT 1</b> Sodium azide	< 0.1%	T+, N	R28, R32, R50/53	_____
26628-22-8	<b>REAGENT 2</b> Sodium azide	< 0.1%	T+, N	R28, R32, R50/53	_____

FORM-0307-A, revision 6

<b>ABX Pentra AST CP</b>	<b>A91A00550CEN</b>	<b>30/06/2008</b>
--------------------------	---------------------	-------------------

#### **4. First-aid-measures**

Inhalation:	No special requirements.
Skin contact:	Wash skin with water.
Eye contact:	Immediately wash eyes, also under the eyelids, with water for at least 15 minutes.
Ingestion:	If patient is conscious, rinse out mouth and throat thoroughly with water. Have the patient drink extensive water. Get medical attention if feeling unwell.

#### **5. Fire-fighting measures : Product non flammable**

Extinguishing media:	Use whatever is required for the surrounding area.
Specific risks:	None determined.
Special protective equipment:	No special requirements.
Additional recommendations:	None.

#### **6. Accidental release measures**

Personal precautions:	Wear a lab coat, protective gloves and safety goggles.
Environmental precautions:	Prevent from getting into sewage, water, ground.
Methods for cleaning/absorption:	Dilute spill with water. Take up with absorbent material and place in a suitable container. Dispose of according to local regulations. Clean affected area.

#### **7. Handling and storage**

##### **7.1. Handling**

Technical measures:	No special requirements.
Precautions:	The usual laboratory precautions should be observed.
Handling recommendations:	Wear a lab coat, protective gloves and safety goggles.

##### **7.2. Storage**

Technical measures:	No special requirements.
Storage conditions:	Store protected from light, in tightly closed containers, at 2-8°C. Do not freeze the reagents.
Incompatible materials:	None determined.
Packaging materials:	No special requirements.

<b>ABX Pentra AST CP</b>	<b>A91A00550CEN</b>	<b>30/06/2008</b>
--------------------------	---------------------	-------------------

<b>8. Exposure controls/personal protection</b>	
<b>8.1. Exposure limit values</b>	
Specific control parameters:	None determined.
<b>8.2. Exposure controls</b>	
<b>8.2.1. Occupational exposure controls</b>	
Technical measures:	Use general room ventilation.
Respiratory protection:	No special requirements.
Hand protection:	Protective gloves.
Eye protection:	Safety goggles.
Skin protection:	Lab coat.
Hygiene measures:	Change contaminated clothes. Wash hands before and after use.
<b>8.2.2. Environmental exposure controls</b>	
Not applicable.	

<b>9. Physical and chemical properties</b>											
<b>9.1. General information</b>											
Physical state:	<table border="1"> <tr> <td>REAGENT 1</td> <td>: Liquid, aqueous clear solution</td> </tr> <tr> <td>REAGENT 2</td> <td>: Liquid, aqueous clear solution</td> </tr> </table>			REAGENT 1	: Liquid, aqueous clear solution	REAGENT 2	: Liquid, aqueous clear solution				
REAGENT 1	: Liquid, aqueous clear solution										
REAGENT 2	: Liquid, aqueous clear solution										
Colour:	<table border="1"> <tr> <td>REAGENT 1</td> <td>: Colourless</td> </tr> <tr> <td>REAGENT 2</td> <td>: Slightly yellow</td> </tr> </table>	REAGENT 1	: Colourless	REAGENT 2	: Slightly yellow	Odour:	<table border="1"> <tr> <td>REAGENT 1</td> <td>: No characteristic odour</td> </tr> <tr> <td>REAGENT 2</td> <td>: No characteristic odour</td> </tr> </table>	REAGENT 1	: No characteristic odour	REAGENT 2	: No characteristic odour
REAGENT 1	: Colourless										
REAGENT 2	: Slightly yellow										
REAGENT 1	: No characteristic odour										
REAGENT 2	: No characteristic odour										
<b>9.2. Important health, safety and environmental information</b>											
pH:	<table border="1"> <tr> <td>REAGENT 1</td> <td>: 7.8 (at 30°C)</td> </tr> <tr> <td>REAGENT 2</td> <td>: 9.6 (at 25°C)</td> </tr> </table>	REAGENT 1	: 7.8 (at 30°C)	REAGENT 2	: 9.6 (at 25°C)	Relative density:	<table border="1"> <tr> <td>REAGENT 1</td> <td>: 1.0308 g/ml (at 20°C)</td> </tr> <tr> <td>REAGENT 2</td> <td>: 1.0148 g/ml (at 20°C)</td> </tr> </table>	REAGENT 1	: 1.0308 g/ml (at 20°C)	REAGENT 2	: 1.0148 g/ml (at 20°C)
REAGENT 1	: 7.8 (at 30°C)										
REAGENT 2	: 9.6 (at 25°C)										
REAGENT 1	: 1.0308 g/ml (at 20°C)										
REAGENT 2	: 1.0148 g/ml (at 20°C)										
Boiling point:	Not determined	Solubility:	Not determined								
Flash point:	Not determined	Partition coefficient:	Not determined								
Flammability (solid, gaz):	Not determined	Viscosity:	Not determined								
Explosive properties:	Not determined	Vapour density:	Not determined								
Oxidizing properties:	Not determined	Evaporation rate:	Not determined								
<b>9.3. Other information</b>											
None											

<b>ABX Pentra AST CP</b>	<b>A91A00550CEN</b>	<b>30/06/2008</b>
--------------------------	---------------------	-------------------

## 10. Stability and reactivity

Conditions to avoid:	None known.
Materials to avoid:	None known.
Hazardous decomposition products:	None known.
Other data:	None.

## 11. Toxicological information

Acute toxicity:	Not determined.
Chronic toxicity:	Not determined.
Inhalation:	Not determined.
Skin contact:	Not determined.
Eye contact:	Not determined.
Ingestion:	Not determined.
Other data:	Quantitative data about the toxicity of the product are not available. Dangerous properties cannot be excluded. However, risks are not to be expected when the product is handled by qualified and authorized personnel with the necessary precautions for chemicals/diagnostic reagents.

## 12. Ecological information

<b>12.1. Ecotoxicity:</b>	Not determined.
<b>12.2. Mobility:</b>	Not determined.
<b>12.3. Degradability:</b>	Not determined.
<b>12.4. Bioaccumulative potential:</b>	Not determined.
<b>12.5. Results of PBT assessment:</b>	Not determined.
<b>12.6. Other hazardous effects:</b>	Quantitative data on ecological effects of the product are not available.

## 13. Disposal considerations

Surplus or waste (residues):	These reagents contain less than 0.1% sodium azide as a preservative. As sodium azide may react with lead and copper, to form explosive metal azides, these reagents should be disposed of by flushing with copious amounts of water. The products must be disposed of as a laboratory chemical according to local regulations.
Contaminated packaging:	Type of primary container: plastic cassette composed of polyethylene high density. Packaging must be disposed of according to local regulations.

<b>ABX Pentra AST CP</b>	<b>A91A00550CEN</b>	<b>30/06/2008</b>
--------------------------	---------------------	-------------------

<b>14. Transport information (International regulations)</b>	
General information:	Not applicable.
By air (IATA):	Not applicable.
By land (ADR):	Not applicable.
By sea (IMDG):	Not applicable.

<b>15. Regulatory information</b>	
Symbols:	None
R phrases:	None
S phrases:	None
Substances:	None
Specific provisions and related laws:	None
Other regulatory requirements:	In no way does this information exempt the user from knowing about or applying all the national or international regulations relating to his/her activity.

<b>16. Other information</b>	
<b>16.1. List of relevant R phrases</b>	
R28	Very toxic if swallowed.
R32	Contact with acids liberates very toxic gas.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>16.2. Recommended restriction on use</b>	
See specific information given in the product user information.	
<b>16.3. Further information</b>	
<p>This sheet is a complement to instructions for use but does not replace them. Information contained herewith is based on our current knowledge of the product, at the date shown, and is correct to the best of our knowledge.</p> <p>Furthermore, the user's attention is drawn to the dangers of using this product for anything other than its intended use. The user must accept the sole responsibility and take precautions accordingly for the use of this product.</p>	
<b>16.4. Sources of key data</b>	
This document has been compiled with information extracted from documents given by our raw material suppliers.	
<b>16.5. Revision</b>	
The sections that have been modified from the previous version are indicated by a vertical line on the left side of the table.	