



Dehydrated Culture Media  
Bases / Media Supplements

# Material Safety Data Sheet

Name of the Product **Violet Red Bile Agar (V.R.B.A.)**  
Code No. **DM 1049S**  
Section 1 : **Chemical Identification**  
Code No. : DM 1049S  
Name of the Product : Violet Red Bile Agar (V.R.B.A.)  
Produced by : Central Drug House Pvt. Ltd.  
Address : 7/28 Vardaan House, Darya Ganj, New Delhi (INDIA)  
Tel. No. : 00 91 11 49404040

Section 2	Composition Ingredients	Grams/Litre	Ingredients	Grams/Litre
	Peptic digest of animal tissue	7.00	Yeast extract	3.00
	Sodium chloride	5.00	*Bile salts mixture	1.50
	Lactose	10.00	*Neutral red	0.03
	*Crystal violet	0.002	Agar	15.00
	Final pH (at 25°C)	7.4 ± 0.2		
	* Irritant / Harmful material			



### Information on Ingredients

Bile salts mixture  
S : 22-24/25



Neutral red  
CAS No. : 553-24-2  
R : 22 S : 22-24/25  
RTECS : SG 1400000



Crystal violet  
CAS No. : 548-62-9  
R : 22-41-50/53 S : 26-39-60-61  
RTECS : BO 9000000

### Section 3 Hazards Identification



Hazard : Inhalation and ingestion of, or skin penetration by these substances is harmful to one's health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage. Caution : Avoid contact with the human body, including inhalation of the vapours and in cases of malaise consult a doctor.



Hazard : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs. Caution : Do not breathe vapours and avoid contact with skin and eyes.



Hazard : Substances which are harmful to the aquatic (aquatic organisms, waters), as well as the non-aquatic environment (fauna, flora, atmosphere) or which have a detrimental effect at longer term. Caution : Avoid release to the environment.

### Section 4 First - Aid Measures

In case of swallowing, wash out mouth with water provided person is conscious. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. In case of inhalation, remove to fresh air. If breathing becomes difficult, call physician. In case of contact with eyes, wash with copious amounts of water for at least 15 minutes. Assure adequate washing by separating the eyelids with fingers. In serious conditions, call a physician, show the container or label.

### Section 5 Fire Fighting Measures

Extinguishing Media. Water spray. Carbon dioxide, dry chemical powder or appropriate foam. Special fire-fighting procedures. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Section 6 Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 Handling and Storage

Handling - Refer to Section 8  
Storage - Store below 30°C




### Section 8 Exposure Controls / Personal Protection

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.



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Section 9	<b>Physical and Chemical Properties</b> Appearance : Homogeneous powder Colour : Light yellow to pink
Section 10	<b>Stability and Reactivity</b> Stability : Product is stable if stored as per the conditions specified under storage of Section No. 7. Product loses its potency/performance above 45°C. Conditions to avoid : Heat and light. Hazardous polymerization will not occur.
Section 11	<b>Toxicological Information</b> Acute Effects : May be harmful if swallowed. Exposure can cause : Stomach pains, vomiting, diarrhoea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. RTECS No. : SG 1400000 BO 9000000 For complete information RTECS may be referred.
Section 12	<b>Ecological Information</b> Data not available
Section 13	<b>Disposal Considerations</b> On completion of work all used or unusable preparations of this product and derivatives thereof are to be disposed off by autoclaving and/or by incineration. Dispose off waste in accordance with all applicable Federal, State and local laws.
Section 14	<b>Transport Information</b> UN No. : Not applicable.
Section 15	<b>Regulatory Information</b> Risk Phrases : Harmful if swallowed. Risk Phrases : Risk of serious damage to eyes. Risk Phrases : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Safety Phrases : Do not breathe dust. Safety Phrases : Avoid contact with skin and eyes. Safety Phrases : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Safety Phrases : Wear eye/face protection. Safety Phrases : This material and its container must be disposed of as hazardous waste Safety Phrases: Avoid release to the environment.
	Significance of signs : Inhalation and ingestion of, or skin penetration by these substances is harmful to one's health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.
	Significance of signs : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs.
	Significance of signs : Substances which are harmful to the aquatic (aquatic organisms, waters), as well as the non-aquatic environment (fauna, flora, atmosphere) or which have a detrimental effect at longer term.
Section 16	<b>Other Information</b> The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.