

# COO Assay

## MATERIAL SAFETY AND DATA SHEET

Section 1		Chemical Product and Company Identification	
<b>Name</b>	COO Assay kit	Coomassie Reagent	Cat.#UP40840    Cat #UPF86420
<b>Synonyms</b> (CAS, chemical names, tradename, abbreviates...)	Protein determination kit based on coomassie G250		
<b>Company identification</b>	UPTIMA-INTERCHIM	213 J.F.Kennedy, 03100 Montluçon (FRANCE) Tel. :+33 (0)3 70 03 88 55 Fax: +33 (0) 3 70 03 82 60 e-mail: <a href="mailto:uptima@interchim.com">uptima@interchim.com</a>	
<b>In case of Emergency</b>	In Europe: Call UPTIMA-INTERCHIM out of office: Centre anti Poisons de Lyon In US: call CHEMTREC	Tel.: +33 (0)3 70 03 88 55 Tel.: 04 72 11 69 11 Tel.: 800;424;9300	

Section 2		Composition, Information on Ingredients	
Component	Hazardous ingredients (Identification, CAS, Name...)	Information (% weight, state...)	
Coomassie Reagent (#UPF86420)	Brilliant Blue G250 (C47H48N3NaO7S2) Acid Alcool	0.02% solution 8.5% 4.75%	
Albumin Standard (#UP36859)	Serum Bovin Albumin	2mg / ml solution	

Section 3		Hazards Identification	
<b>Label precautionary statement</b>	IRRITANT Irritating to eyes, respiratory system and skin		
<b>Emergency overview</b>	Contains material which cause damage to the following organs: lungs, gastrointestinal tract, respiratory tract, skin, eyes, central nervous system, lens or cornea. May be harmful if inhaled, absorbed through skin or swallowed.		
<b>Potential health effects</b> (Eye, Skin, Ingestion, Inhalation, Chronic)	Slightly hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant, corrosive), of ingestion, of inhalation (lung irritant, lung corrosive)		
<b>Other information</b> (over-exposure, toxicity...)			
<b>Precautionary guidelines</b>	Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.		

Section 4		First aid Measures	
<b>General measures</b>	Remove contaminated clothing promptly. Allow the victim to rest in a well ventilated area, Seek medical attention		
<b>Emergency first measures</b> (Eyes, Skin, Ingestion, Inhalation...)	In case of skin contact, wash thoroughly (>15min) after handling-contact. Remove contaminated clothing and shoes In case of eye contact, flush with copious amounts of water for at least 15 min. Assure adequate flushing by separating the eyelids with fingers. If shallowed, do NOT induce vomiting, if conscious and alert, rinse mouth and drink water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air If no breathing, give artificial respiration If breathing is difficult, give oxygen		
<b>Notes to physicians</b>	Not available		

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Section 5 Fire Fighting Measures	
Physical Information (Flammability, auto-ignition, flash point...)	Non-flammable
General information	/
Extinguishing media	Not applicable
Spills and Leaks	/

Section 6 Accidental Release Measures	
General information	Wear a proper personal protective equipment to avoid skin and eye exposure (see section 8): wear respirator, rubber boots, chemical resistant gloves
Spills and Leaks	Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Other	

Section 7 Handling and Storage	
Handling	avoid prolonged contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8 Exposure Controls, Personal Protection	
Engineering controls	Ensure there is eyewash stations and safety showers close to the work-stations. Avoid breathing vapors, and provide an exhaust ventilation if prolonged work periods.
Personal protection (eyes, hands, body, respiratory...)	For normal use, rubber gloves usually sufficient when handled properly. Wear protective clothing (laboratory suit) to prevent skin contact In case of large spill, additional protective wears may be needed (boots, splash goggles and safety glasses...) Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions
Exposure limits	consult local authorities

Section 9 Physical and Chemical Properties	
Physical state / Appearance	Liquid
Odor	No remarkable odor
Other (pH, Melting/Freezing Point, Vapor Pressure, Vapor Density, Volatility, Boiling Point, Viscosity, Flash point, Auto-ignition temperature, Explosion limits (low.Upp.), Specific Gravity / Density, Molecular Formula / MW, CAS...)	Not available. All reagents are aqueous solutions
Comments	

Section 10 Stability and Reactivity	
Chemical Stability Chemical Reactivity (conditions, by-products...)	This product is stable under normal storage and handling conditions (normal temperature and pressure)
Incompatibilities (conditions, materials...)	Strong oxidizing agents Strong acids
Decomposition polymerisation (conditions, materials...)	Hazardous combustion or decomposition not known products of combustion are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ), metallic oxides (sulfur oxides) No Hazardous polymerisation

For any question,  
contact your local distributor

Uptima,  
powered by



213 Avenue J.F. Kennedy - BP 1140  
03103 Montluçon Cedex - France  
Tél. 04 70 03 88 55 - Fax 04 70 03 82 60

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[uptima@interchim.com](mailto:uptima@interchim.com)

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<b>Comments</b>	
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<b>Section 11 Toxicological Information</b>	
<b>Toxicity in animals</b>	Acute oral toxicity (LD50): 1530 mg/kg [rat]. (Acid) Acute dermal toxicity (LD50): 2470 mg/kg [rabbit]. (Acid)
<b>in human</b>	???
<b>Carcinogenicity</b>	Not available
<b>Remarks (RTECS...)</b>	Not available

<b>Section 12 Ecological Information</b>	
<b>Ecotoxicity (BOD5, COD...)</b>	Not available
<b>Biodegradation</b>	
<b>Mobility</b>	
<b>Remarks</b>	

<b>Section 13 Disposal Considerations</b>	
<b>Waste</b>	Not available
<b>Remarks</b>	Consult your local or regional authority or a licensed professional waste service

<b>Section 14 Transport Information</b>	
<b>Classifications (Other classifications)</b>	Not controlled under IATA, ADR (Europe) Not controlled under TDG(Canada), IMDG, DOT (USA)
<b>Shipping</b>	Room temperature
<b>Hazards Class</b>	
<b>UN Class</b>	
<b>Packing Group</b>	
<b>Comments (marine pollutants...)</b>	

<b>Section 15 Regulatory Information</b>	
<b>Classification Europe</b>	* European labeling in accordance with EC directives CAUTION: product not fully tested Hazard symbols: not available
<b>Other classifications</b>	Risk phrases: Reagent A: R36 Reagent B: R37-38 Safety phrases: Reagent A: S26-36 Reagent B: * WGK (Water Danger/Protection) : CAS# 69-78-3: 1 * Canada: CAS# 69-78-3 is listed on Canada's DSL/NDSL List, but not listed on Canada's Ingredient Disclosure List. * US FEDERAL: CAS# 69-78-3 is listed on the TSCA inventory.

<b>Section 16 Additional Information</b>	
<b>MSDS validation</b>	UPTIMA-INTERCHIM, A07E
<b>Comment</b>	<i>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages</i>