



# APPLIED TECHNICAL SERVICES, INCORPORATED

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## CHEMICAL TEST REPORT

Ref. C141144

Date July 7, 2009

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Customer: Optical Disc Solutions, 1767 Sheridan Street, Richmond, IN 47374

Attention: Brian Klaine

Purchase Order #: Credit Card

Part #/Name: CD & DVD (See Below)

Material Designation: Various Materials

Special Requirement: Samples prepared using microwave digestion techniques for lead analyzed.

ICP atomic emission techniques utilized to analyze for lead as per ASTM E1479-99(2005).

Lab Comment: GC/MS was used to identify and quantify the phthalate compounds according to ASTM D 7083 -04 *Standard Practice for Determination of Monomeric Plasticizers in Poly (Vinyl Chloride) (PVC) by Gas Chromatography*

### Test Results

Composition: (parts per million, mg/kg)

Identification	Pb	DnBP	BBP	DEHP	DnOP	DINP	DIDP
<i>CPSIA Section 101 lead requirements</i>	600 Max.	1000 Max.	1000 Max.	1000 Max.	1000 Max.	1000 Max.	1000 Max.
World History CD: Graphics	22	ND*	ND*	ND*	ND*	ND*	ND*
World History CD: Plastic	11	ND*	ND*	ND*	ND*	ND*	ND*
Childserve DVD: Graphics	<24	ND*	ND*	ND*	ND*	ND*	ND*
Childserve DVD: Plastic	<8	ND*	ND*	ND*	ND*	ND*	ND*

ND\* – None Detected < 250 ppm: Di-n-Butyl Phthalate (DnBP), Butyl Benzyl Phthalate (BBP), Di-Ethyl Hexyl Phthalate (DEHP), Di-n-Octyl Phthalate (DnOP), Di-Isononyl Phthalate (DINP) and Di Isodecyl Phthalate (DIDP).

Note: Phthalate samples were taken as a composite of graphics and plastic for each CD/DVD.

Prepared by:

D. M. McKay  
Senior Chemist

Approved by:

P. E. Rogers  
Manager



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